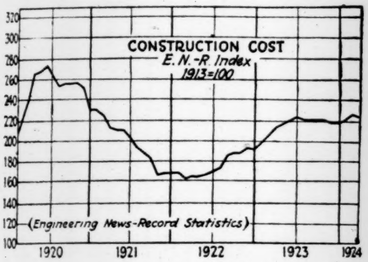
CONSTRUCTION NEWS

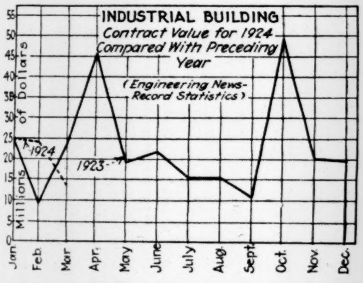
Engineering News-Record, April 10, 1924

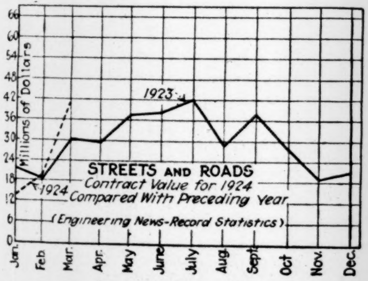
The Construction Barometer

Increase in Volume of March Construction Due to Lower Cost—Materials Stocks Adequate for Present Needs—Little Buying for Replenishment Despite Easier Prices

HESITANCY in buying characterizes the materials market at the present time. Prices are easier yet there is no forward purchasing tendency. Reserve stocks of materials are adequate for present needs but replenishment will be necessary before the season advances much further. That this condition is temporary is indicated by the high rate of production now being maintained in most of the basic industries. While the bulk of the present output is on orders already placed, there is some confidence in demand for the near future, otherwise production would decline. The increased volume of March construction consequent to decreased cost is shown in the accompanying charts. The *Engineering News-Record* Cost Index Number for April is 221.6 (1913 = 100) as compared with 224.7 last month and 213.5, one year ago.







Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Mar. 20	$17,126,000	$31,125,000	$48,251,000
Mar. 27	28,345,000	23,151,000	51,496,000
Apr. 3	23,838,000	20,548,000	44,386,000
3 weeks	$69,309,000	$74,824,000	$144,133,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

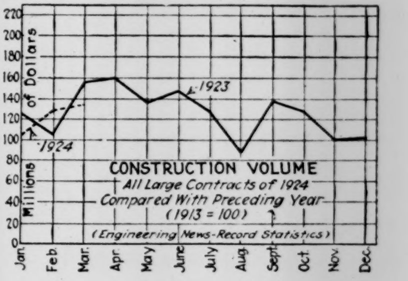
Week Ended	No.	Public Work	No.	Private Work
Mar. 20	13	$4,152,000	62	$24,070,000
Mar. 27	15	3,416,000	33	17,317,000
Apr. 3	16	6,553,000	58	17,247,000
3 weeks	44	$14,121,000	153	$58,634,000

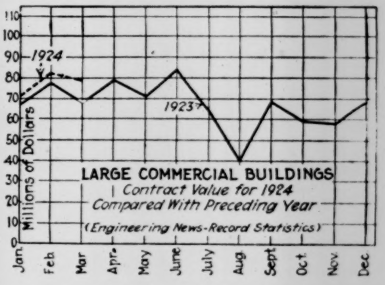
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

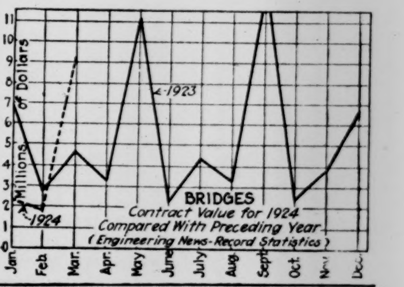
			Public		
Week Ended	Private	All Buildings	Streets and Roads	Waterworks and Sewers	All Public
Mar. 20	40	64	81	47	256
Mar. 27	28	50	99	41	262
Apr. 3	37	53	127	50	301

DEMAND RESTRICTED DESPITE LOWER PRICES

	Quoted on Apr. 10 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.30 @2.50	$2.40 @2.50	Mar. 13
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M. ft.	64.00	65.00	Mar. 13
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.55	.54	Feb. 28







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Apr. 11	Cleveland, O.	Apr. 3
Apr. 14	Downington, Pa.	Mar. 27
Apr. 14	Newton, N. J. Adv. Apr. 10.	Apr. 10
Apr. 15	Jamestown, N. Y.	Mar. 27
Apr. 15	Dubois, Pa.	Apr. 3
Apr. 15	St. Paul, Minn.	Apr. 10
Apr. 16	Cleveland, O.	Apr. 10
Apr. 17	Altheimer, Ark.	Apr. 10
Apr. 18	Plattsburg, N. Y.	Apr. 10
Apr. 21	Buffalo, N. Y.	Mar. 27
Apr. 21	Albany, N. Y. Adv. Apr. 10.	Apr. 10
Apr. 21	St. Paul, Minn.	Apr. 10
Apr. 21	Smiths Falls, Ont.	Apr. 10
Apr. 24	Metropolis, Ill.	Apr. 3
Apr. 24	Roselle, Ill.	Apr. 10
May 5	Springfield, Mass. Adv. Apr. 10.	Apr. 10
May 6	Hinsdale, Ill. Adv. Apr. 10.	Apr. 10

SEWERS

Bids Close		See Eng. News-Record
Apr. 11	Mercer, Pa.	Mar. 27
Apr. 11	New Jersey	Apr. 3
Apr. 14	Ventnor, N. J.	Apr. 3
Apr. 14	Long Island City, N. Y.	Apr. 10
Apr. 14	St. George, N. Y.	Apr. 10
Apr. 14	Detroit, Mich.	Apr. 10
Apr. 15	Ely, Minn.	Apr. 3
Apr. 15	Lubbock, Tex.	Apr. 3
Apr. 15	Elizabethtown, Pa.	Mar. 20
Apr. 15	Grand Rapids, Mich.	Mar. 27
Apr. 15	Marion, O.	Mar. 27
Apr. 15	New York, N. Y.	Apr 10
Apr. 15	Gloversville, N. Y.	Apr. 10
Apr. 15	Long Island City, N. Y.	Apr. 10
Apr. 16	Phila., Pa.	Apr. 3
Apr. 17	New Brunswick, N. J.	Apr. 10
Apr. 20	Akron, O.	Apr. 10
Apr. 21	Plainfield, N. J. Adv. Apr. 10.	Apr. 10
Apr. 23	Longmeadow, Mass.	Mar. 27
Apr. 28	Providence, R. I. Adv. Apr. 3 and 10.	Apr. 3
Apr. 29	Indianapolis, Ind. Adv. Apr. 10.	Apr. 10
May 19	Royal Oak, Mich. Adv. Apr. 10.	Apr. 10

BRIDGES

Bids Close		See Eng. News-Record
Apr. 11	Ohio	Apr. 3
Apr. 11	Le Roy, N. Y.	Mar. 27
Apr. 14	Eufaula, Ala.	Mar. 20
Apr. 14	Aurora, Ill.	Apr. 3
Apr. 15	Chamberlain, S. D.	Mar. 13
Apr. 15	Arkansas	Mar. 27

Bids Close		See Eng. News-Record
Apr. 15	Indiana	Apr. 10
Apr. 15	Nebraska	Apr. 10
Apr. 16	Coleman, Tex.	Apr. 10
Apr. 17	Scarsdale, N. Y. Adv. Mar. 27 to Apr. 10.	Apr. 3
Apr. 17	Maine	Apr. 10
Apr. 17	Mt. Clemens, Mich.	Apr. 10
Apr. 18	Alabama	Apr. 3
Apr. 18	Milford, O.	Mar. 27
Apr. 18	Cambridge, Ill.	Apr. 10
Apr. 18	Newton, N. C.	Apr. 10
Apr. 19	Georgia	Apr. 10
Apr. 21	Pittston, Pa.	Apr. 3
Apr. 21	Jacksonville, Fla.	Apr. 10
Apr. 21	California	Apr. 10
Apr. 22	East St. Louis, Ill.	Mar. 27
Apr. 23	Lakewood, O.	Apr. 3
Apr. 23	Cleveland, O.	Apr. 10
Apr. 24	Akron, O.	Apr. 10
Apr. 24	New Jersey Adv. Apr. 10.	Apr. 10
May 1	Tientsen, North China	Oct. 11
May 8	Greenville, Miss.	Apr. 3
May 20	Corpus Christi, Tex.	Apr. 10
May 26	Sunbury, Pa. Adv. Apr. 10.	Apr. 10

RAILWAYS

Bids Close		See Eng. News-Record
Apr. 15	New York Adv. Mar. 20 to Apr. 3.	Mar. 20
Apr. 17	Ontario	Apr. 10

EXCAVATION, DRAINAGE IRRIGATION

Bids Close		See Eng. News-Record
Apr. 15	Rochester, N. Y. Adv. Mar. 20 to Apr. 10.	Mar. 20
Apr. 15	New York Adv. Mar. 20 to Apr. 10.	Mar. 20
Apr. 24	Royal Oak, Mich. Adv. Apr. 3 and 10.	Apr. 3
May 6	Minneapolis, Minn.	Mar. 20
May 20	Corpus Christi, Tex.	Apr. 10

STREETS AND ROADS

Bids Close		See Eng. News-Record
Apr. 11	Ohio	Apr. 3
Apr. 11	Bexley (Columbus P. O.), O.	Mar. 27
Apr. 11	Richmond, Va.	Apr. 10
Apr. 11	South Orange, N. J.	Apr. 10
Apr. 14	West Union, W. Va.	Apr. 3
Apr. 14	St. Albans, W. Va.	Mar. 20
Apr. 14	New Jersey	Mar. 27
Apr. 14	Michigan	Apr. 3
Apr. 14	Central Falls, R. I. Adv. Apr. 3 and 10.	Apr. 3
Apr. 14	Crown Point, Ind.	Apr. 3
Apr. 14	Kansas City, Kan.	Apr. 3
Apr. 14	Wisconsin	Apr. 3
Apr. 14	Long Island City, N. Y.	Apr. 10
Apr. 14	Harvey, Ill.	Apr. 10
Apr. 14	Granfield, Okla.	Apr. 10
Apr. 14	Milwaukee, Wis.	Apr. 10
Apr. 14	Dalton, Ga.	Apr. 10
Apr. 14	Omaha, Neb.	Apr. 10
Apr. 15	Lubbock, Tex.	Apr. 3
Apr. 15	Letchworth Park (Portageville P. O.), N. Y.	Apr. 3
Apr. 15	Tonawanda, N. Y. Adv. Mar. 20 to Apr. 10.	Mar. 20
Apr. 15	Pottsville, Pa.	Mar. 27
Apr. 15	Bay City, Tex.	Mar. 27
Apr. 15	West Virginia	Mar. 27
Apr. 15	New Mexico	Mar. 27
Apr. 15	St. James, Minn.	Mar. 27
Apr. 15	Charleston, W. Va.	Apr. 3
Apr. 15	Michigan	Apr. 3
Apr. 15	Gloversville, N. Y.	Apr. 3
Apr. 15	Linton, Ind.	Apr. 3
Apr. 15	Hastings, Minn.	Apr. 10
Apr. 15	New York, N. Y.	Apr. 10
Apr. 15	Ottawa, Ont.	Apr. 10
Apr. 15	Nebraska	Apr. 10
Apr. 15	Nova Scotia	Apr. 10
Apr. 15	Denver, Colo.	Apr. 10
Apr. 15	Colorado	Apr. 10
Apr. 15	Buffalo, N. Y.	Apr. 10
Apr. 16	Michigan	Apr. 3
Apr. 16	Richmond Heights (St. Louis P. O.), Mo.	Apr. 3
Apr. 16	New Philadelphia, O.	Apr. 3
Apr. 16	Phila., Pa.	Apr. 3
Apr. 16	Valley City, N. D.	Apr. 3
Apr. 16	Poughkeepsie, N. Y. Adv. Apr. 10.	Apr. 10
Apr. 16	Quebec	Apr. 10
Apr. 16	Clayton, Mo.	Apr. 10
Apr. 16	Michigan	Apr. 10
Apr. 16	Nebraska	Apr. 10
Apr. 16	San Francisco, Calif.	Apr. 10
Apr. 16	New York, N. Y.	Apr. 10
Apr. 17	Cooperstown, N. D.	Apr. 3
Apr. 17	West Virginia	Mar. 27
Apr. 17	Maine	Apr. 3
Apr. 17	Charleston, W. Va.	Apr. 3
Apr. 17	Janesville, Wis. Adv. Apr. 10.	Apr. 10
Apr. 17	Gallatin, Tenn.	Apr. 10
Apr. 17	Michigan	Apr. 10
Apr. 17	Nebraska	Apr. 10
Apr. 17	Ecru, Miss.	Apr. 10
Apr. 17	Newark, N. J.	Apr. 10
Apr. 17	New Brunswick, N. J.	Apr. 10
Apr. 17	New York, N. Y.	Apr. 10
Apr. 18	Alabama	Apr. 3
Apr. 18	New York Adv. Apr. 3 and 10.	Apr. 3
Apr. 18	Buffalo, N. Y.	Apr. 10
Apr. 18	Florida	Apr. 10
Apr. 18	Plattsburg, N. Y.	Apr. 10
Apr. 18	Nebraska	Apr. 10
Apr. 18	Cleveland, O.	Apr. 10
Apr. 19	Williamson, W. Va.	Apr. 10
Apr. 19	Cleveland, O.	Apr. 10
Apr. 19	Georgia	Apr. 10
Apr. 21	New Jersey Adv. Apr. 3 and 10.	Apr. 3
Apr. 21	South Bend, Ind.	Apr. 3
Apr. 21	Michigan	Apr. 3
Apr. 21	New Hartford, N. Y.	Apr. 3
Apr. 21	St. Paul, Minn.	Apr. 10
Apr. 21	California	Apr. 10
Apr. 21	San Anselmo, Calif.	Apr. 10
Apr. 21	Kirksville, Mo.	Apr. 10
Apr. 21	Daly City (Branch of San Francisco), Calif.	Apr. 10
Apr. 22	Hopatcong, N. J. Adv. Apr. 3 and 10.	Apr. 3
Apr. 22	Michigan	Apr. 3
Apr. 22	Dodge City, Kan	Apr. 3
Apr. 22	Grand Rapids, Minn.	Apr. 10
Apr. 22	Minnesota	Apr. 10
Apr. 22	Kentucky	Apr. 10
Apr. 22	Bridgeton, N. J.	Apr. 10
Apr. 23	Ventura, Calif.	Apr. 3
Apr. 23	Pennsylvania Adv. Apr. 3 and 10.	Apr. 10
Apr. 23	Benson, Minn.	Apr. 10
Apr. 24	Sanderson, Tex.	Apr. 3
Apr. 24	Arkansas Adv. Apr. 3 and 10.	Apr. 3
Apr. 24	Topeka, Kan.	Mar. 27
Apr. 24	Pennsylvania Adv. Apr. 3 and 10.	Apr. 10
Apr. 24	Michigan	Apr. 10
Apr. 24	Wisconsin	Apr. 10
Apr. 24	Pipestone, Minn.	Apr. 10
Apr. 25	St. Louis, Mo.	Mar. 27
Apr. 25	Sedan, Kan.	Apr. 3
Apr. 25	Liberty, Tex.	Apr. 3
Apr. 25	Troy, Kan.	Apr. 10
Apr. 25	Michigan	Apr. 10
Apr. 28	Emporia, Kan.	Apr. 10
Apr. 28	Moundsville, W. Va.	Apr. 10
Apr. 28	San Antonio, Tex.	Apr. 10
Apr. 28	Pennsylvania Adv. Apr. 10.	Apr. 10
Apr. 28	New Jersey Adv. Apr. 10.	Apr. 10
Apr. 28	California	Apr. 10
Apr. 29	Pennsylvania Adv. Apr. 10.	Apr. 10
Apr. 30	Delaware Adv. Apr. 10.	Apr. 10
Apr. 30	Leavenworth, Kan.	Apr. 10
May 1	Duluth, Minn.	Mar. 20
May 1	Michigan	Apr. 10
May 6	Ft. Scott, Kan.	Apr. 3
May 6	Princeton, N. J.	Apr. 10
May 14	Baton Rouge, La. Adv. Apr. 10.	Apr. 10
June 1	Duluth, Minn.	Apr. 3

INDUSTRIAL WORKS

Bids Close		See Eng. News-Record
Apr. 14	Fredonia, Kan.	Apr. 3
Apr. 14	Long Island City, N. Y.	Apr. 10
Apr. 15	Somerset, Pa.	Mar. 20
Apr. 15	Zanesville, O.	Apr. 10
Apr. 15	New Orleans, La.	Apr. 10
Apr. 15	Phila., Pa.	Apr. 10
Apr. 15	Geneva, O.	Apr. 10
Apr. 17	Buffalo, N. Y. Adv. Mar. 20 to Apr. 10.	Mar. 27
Apr. 18	Duluth, Minn.	Apr. 10
Apr. 30	Wellington, New Zealand	Apr. 3
May 21	Wellington, New Zealand	Apr. 3
May 21	Wellington, New Zealand	Jan. 10

BUILDINGS

Bids Close		See Eng. News-Record
Apr. 12	Ardmore, Pa.	Apr. 3
Apr. 14	Haverstraw, N. Y.	Apr. 3
Apr. 14	Forty Fort, Pa.	Apr. 10
Apr. 14	Bridgeton, N. J.	Apr. 10
Apr. 14	Trenton, N. J.	Apr. 10
Apr. 14	Detroit, Mich.	Apr. 10
Apr. 14	Camp Hill, Pa.	Apr. 10
Apr. 15	Aurora, Ill.	Apr. 3
Apr. 15	Atlantic City, N. J.	Apr. 3
Apr. 15	Somerset, Pa.	Mar. 20
Apr. 15	Woodbury, N. J.	Mar. 27
Apr. 15	Norman, Okla.	Apr. 10
Apr. 15	Hazelton, Pa.	Apr. 10
Apr. 15	North Milwaukee, Wis.	Apr. 10
Apr. 15	Anna, Ill.	Apr. 10
Apr. 16	Denver, Colo.	Mar. 27
Apr. 16	Stratford, Conn.	Apr. 10
Apr. 18	Elizabethtown, Pa.	Apr. 10
Apr. 18	Akron, O.	Apr. 10
Apr. 18	Hannibal, Mo.	Apr. 10
Apr. 19	Orange, N. J.	Apr. 10
Apr. 19	New Orleans, La.	Mar. 27
Apr. 19	Muskogee, Okla.	Apr. 10
Apr. 22	Jamaica, N. Y.	Apr. 3
Apr. 22	Flushing, N. Y.	Apr. 3
Apr. 22	Le Roy, N. Y.	Apr. 10
Apr. 23	Central Islip, N. Y. Adv. Apr. 3 and 10.	Apr. 10
Apr. 23	Buffalo, N. Y.	Apr. 10
Apr. 23	St. John, N. B.	Apr. 10
Apr. 24	Reading, Pa.	Apr. 3
Apr. 24	Boston, Mass.	Apr. 3
Apr. 25	Springfield, O.	Apr. 10
Apr. 25	Baltimore, Md.	Apr. 10
Apr. 29	Ohio	Apr. 10
May 1	Youngstown, O.	Feb. 7
May 1	Cedar Grove, N. J.	Apr. 10
May 2	Koch, Mo.	Apr. 3

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
Apr. 12	Dredging — Providence, R. I.	Mar. 13
Apr. 14	Dredging—New York, N. Y.	Mar. 27
Apr. 14	Stone—Wilmington, Del.	Mar. 27
Apr. 15	Post Office — Hastings, Mich.	Mar. 20
Apr. 16	Road—California	Apr. 10
Apr. 17	Waterworks—Fort Hamilton (Sta. Brooklyn), N. Y. Adv. Apr. 10.	Apr. 10
Apr. 18	Riprap—Detroit, Mich. Adv. Mar. 20 to Apr. 10.	Mar. 20
Apr. 19	Excavating—Wilmington, Del.	Mar. 20
Apr. 22	Steel Gates — Florence, Ala. Adv. Mar. 27 to Apr. 10.	Mar. 13
Apr. 22	Post Office—Water Valley, Miss.	Mar. 27
Apr. 22	Quarters—Chicago, Ill.	Apr. 3
Apr. 23	Ammunition Depot—Puget Sound, Wash.	Mar. 27
Apr. 24	Post Office—Oswego, N. Y. Adv. Apr. 3 and 10.	Apr. 3
Apr. 24	Current Retards—Marthasville, Mo.	Apr. 3
Apr. 25	Lock—Fords Ferry, Ky. Adv. Mar. 27 to Apr. 10.	Mar. 27
Apr. 28	Steel Boat Hulls and Derricks —Louisville, Ky. Adv. Apr. 3 and 10.	Apr. 3
Apr. 29	Walls—Fords Ferry, Ky.	Mar. 27
Apr. 29	Motor Launch—Detroit, Mich. Adv. Apr. 10.	Apr. 10
Apr. 30	Barge—Jacksonville, Fla. Adv. Apr. 3 and 10.	Apr. 3
Apr. 30	Post Office—Thomasville, N. C. Adv. Apr. 3 and 10.	Apr. 3
May 8	Post Office—Bakersfield, Calif. Adv. Apr. 3 and 10.	Apr. 10

UNCLASSIFIED

Bids Close		See Eng. News-Record
Apr. 11	Park—Trenton, N. J	Apr. 10
Apr. 14	Heating and Ventilating Apparatus—New York, N. Y.	Apr. 3
Apr. 14	Heating and Ventilating Apparatus—Brooklyn, N. Y.	Apr. 3
Apr. 15	Hot Water Supply System—Perrysburg, N. Y.	Apr. 10
Apr. 15	Fire Alarm System—New York, N. Y.	Apr. 10
Apr. 15	Stadium—Morgantown, W. Va.	Apr. 10
Apr. 16	Subway Entrance—New York, N. Y.	Apr. 3
Apr. 16	Bulkhead, etc.—Chicago, Ill. Adv. Apr. 10.	Apr. 10
Apr. 17	Hydro Electric Development Morrisville, Vt. Adv. Apr. 3 and 10.	Apr. 3
Apr. 17	Ferry House, etc.—New Orleans, La.	Apr. 10
Apr. 18	Generator—Turlock, Calif.	Apr. 10
Apr. 23	Fire Alarm System—Middletown, N. Y.	Apr. 3
Apr. 25	Subway—New York, N. Y.	Apr. 10
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13
May 20	Transfer Shed, etc.—Corpus Christi, Tex.	Apr. 10

MATERIAL AND EQUIPMENT

Bids Close		See Eng. News-Record
Apr. 11	Paving Materials—Chicopee, Mass.	Apr. 10
Apr. 11	Tier Plates—New York, N. Y.	Apr. 10
Apr. 12	Oil, etc.—Trenton, N. J.	Apr. 3
Apr. 14	Road Maintainer — Houston, Tex.	Apr. 3
Apr. 14	Trucks—St. George, N. Y.	Apr. 10
Apr. 15	Crushed Stone, etc.—Wilmington, Del.	Apr. 10
Apr. 15	Brick, Portland Cement, etc. —St. Paul, Minn.	Apr. 10
Apr. 15	Sand Grit, etc.—Long Island City, N. Y.	Apr. 10
Apr. 16	Power House Equipment—Tacoma, Wash.	Mar. 13
Apr. 16	Paving Materials—Springfield, Mass.	Apr. 10
Apr. 16	Asphalt Binder, etc.—New York, N. Y.	Apr. 10
Apr. 17	Cement—Alabama	Apr. 3
Apr. 17	Cement—Buffalo, N. Y.	Apr. 10
Apr. 18	Asphaltic Binder—Plattsburg, N. Y.	Apr. 10
Apr. 21	Stone, etc.—Trenton, N. J.	Apr. 10

Bids Close		See Eng. News-Record
Apr. 22	Road Oil — Hartford, Conn.	Apr. 10
Apr. 22	Road Material—Louisiana	Apr. 10
Apr. 23	Electrical Equipment — Tacoma, Wash.	Mar. 27
Apr. 25	Condensers, etc.—Cleveland, O.	Apr. 10
May 15	Turbine — Prince Albert, Sask.	Mar. 27
Aug. 29	Dredger—Brisbane, Queensland, Australia	Apr. 10 Adv. Apr. 10.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Binghamton — Common Council voted $15,000 bonds altering pumps and equipment at pumping plant. B. Winsor, comr. Pub. Wks.

N. Y., Potsdam—Bd. Village Trustees had plans prepared water supply. $275,000. J. P. Wells, Cutler Bldg., Rochester, hydraulic engr.

W. Va., Piedmont — Election Apr. 23, $30,000 bonds, chlorinating and filtration plant, pump and pumping system.

W. Va., St. Marys—Election Apr. 22, $60,000 bonds, improving waterworks, incl. wells, new pumping machinery, additional mains, etc. J. M. Rice, engr.

Kentucky—City of Morganfield plans intake line in Ohio River, pumping station at Uniontown and 4 mi. supply line to Morganfield. $90,000. Gannett, Seelye & Fleming, Rand Bldg., Memphis, Tenn., engrs. Noted Dec. 13 under Morganfield.

Ala., Bessemer — Alabama Water Co., American Trust Bldg., Birmingham, plans to install electric operated pumping machinery. $175,000.

Miss., Magee—Soon takes bids electrically driven pumping unit, etc. $50,000.

O., Columbus—See "Streets and Roads."

Ill., Hammond — Having preliminary plans prepared enlarging intake, pumping equipment and main extensions. $150,000.

Wis., Milwaukee—Central Bd. Purchases, soon takes bids 3 chlorinators for Riverside Pumping Station, $5,000. J. Schwada city engr.

Minn., Waconia — Making plans waterworks system. Election soon, $25,000 bonds. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs.

Kan., Riley—Election Apr. 14, $31,000 bonds, 50,000 gal. tank on tower, 11,136 lin.ft. 4-, 6-, and 8-in. pipe, 3,700 ft. 2-in. galvanized pipe, 23 hydrants, deep well, etc. Hensington Eng. Co., Natl. Bldg., Omaha, engrs. Noted Mar. 31.

Neb., Lincoln—Lincoln Water Co. soon takes bids extending 4, 6 and 8 in. pipe lines. $16,200. Private plans.

Neb., Republican City—C. E. McPherson, city clk., received no bids Mar. 20, improving waterworks. $20,000. Noted Mar. 20.

Neb., Scottishbluff—Plans 27,600 lin.ft. 4, 6 and 8 in. c.i. mains in various streets. J. Fuehrig, City Hall, engr.

Mo., Perryville—Plans waterworks, filtration plant, tank and tower, distribution mains, etc. $75,000. Engineer not selected.

Tex., Snyder — Having plans prepared complete waterworks. $50,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Okla., Cheyenne—Voted $35,000 bonds and preparing plans waterworks, incl. pumps, reservoir and mains. Noted Sept. 27.

Okla., Newkirk—Defeated $110,000 bonds, new source of supply, wells, pipe lines, etc. H. E. Musson, Grain Exch. Bldg., Oklahoma City, engr. Noted Mar. 6.

Wash., Kelso—Making plans improvements to water system, incl. 2 m.g. reservoir. $200,000. U. G. Jackson, city engr.

Calif., Anaheim—Having plans prepared improvements to water system, 450 lin.ft. 16 in., 3,230 lin.ft. 12 in., 3,110 lin.ft. 10 in., 14,620 lin.ft. 6 in. and 31,491 lin.ft. 4 in. c.i. pipe, well, pump, motor, fittings, fire hydrants, etc. O. E. Steward, city engr. Noted Apr. 3.

Calif., Newport Beach—Plans to increase capacity from 2,700,000 to 5,000,000 g.p.d., for fire protection.

Calif., Ontario—Plans to vote on $60,000 bonds, 10 m.g. reservoir.

Calif., Whittier—Plans to vote on $100,000 bonds, extensions to water system.

Calif., San Francisco — City and San Francisco Co., Bay-Pulgas pumping plant, Hetch Hetchy Project, Contr. 94, to De-Laval Steam Turbine Co., Rialto Bldg., $5,125. Noted Apr. 3.

Que., Montreal—Voted $300,000 for improvements incl. tunnel under Lachine Canal near Wellington Bridge for passage of three 48 in. water conduits tunnel under Canadian Natl. R.R. tracks near Atwater Ave., for two 48 in. water conduits, and viaduct under Canadian Natl. R.R. tracks near Atwater Ave. C. J. Des Baillets, ch. engr. Aqueduct Bd.

Que., Verdun—Plans to expend $60,000 for extending and enlarging waterworks, and installing additional filters. H. Hadley, city engr.

Ont., Campbellford — Plans extending mains, 10,000 ft. 6 in. c.i. pipe, gate valves, hydrants, etc. $30,000. Engineer not selected.

Ont., Smiths Falls—Having plans prepared and soon takes bids filtration plant, concrete and brick building, mechanical filters, c.i. pipe, etc. $35,000. E. H. Darling, Home Bank Bldg., Hamilton, engrs. Noted Mar. 13.

BIDS DESIRED

Mass., Springfield—May 5, by Bd. Water Comrs., 4 covered masonry filters, buildings, etc. E. E. Lochridge, ch. engr. Hazen & Whipple, 25 West 43rd St., New York City, consult. engrs.; adv. E. N.-R. Apr. 10.

N. Y., Albany—Apr. 21, additions to water purification plant. Hazen & Whipple, 25 West 43rd St., New York City, engrs.; adv. E. N.-R. Apr. 10.

N. Y., Binghamton—Bd. Contr. & Supply taking bids 3,852 ft. 12 in. mains in Court St., and 4,125 ft. 8 in. mains in Vestal Ave. $50,000. E. Prentice, city engr.

N. Y., Plattsburg—Apr. 18, by Common Council, 1,200 ft. 4 in. and 1,200 ft. 6 in. B and S, also 1,200 ft. 4 in. and 1,200 ft. 6 in. Universal c.i. pipe. I. L. Wood, city clk.

N. J., Newton—Apr. 14, by Town Com., 115 Spring St., 4 in. c.i. pipe f.o.b. Newton. W. J. Hardin, town engr.; adv. E. N.-R. Apr. 10.

O., Cleveland—Apr. 16, mains in Woodland Ave., Sect. E. A. V. Ruggles, City Hall, engr.

O., Cleveland—Apr. 16, by Cuyahoga Co. 15,000 ft. 6 and 8 in. c.i. mains, Impvt. 13 of Co. Sewer Dists. 1 and 2. R. F. MacDowell, Court House, engr.

Ill., Hinsdale—May 6, by Bd. Trustees, Village Office, drilling deep well on waterworks property. F. D. Danielson, village mgr.; adv. E. N.-R. Apr. 10.

Ill., Roselle—Apr. 24, by City Clerk, 10 in. well, 200 ft. deep, and 50,000 gal. tank on tower. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Minn., St. Paul—Apr. 15, by H. W. Austin, city purch. agt., 48 tons reinforcing steel for Water Dept. G. M. Shepard, city engr.

Minn., St. Paul—Apr. 21, by G. J. Ries, aud. Ramsey Co., 2 pump houses, with weir boxes, flumes and well sump pits over wells, at Matoska Park; installing pumps, alternate bids on (a) 2 vertical type single stage centrifugal pumps of 750, 100 or 1250 g.p.m., (b) turbines or impellers two rotating deep well pumps of 750 or 1000 g.p.m., (c) 2 horizontal centrifugal pumps 500, 750 or 1000 g.p.m. $25,000. P. N. Coates, 900 Guardian Life Bldg., co. surv.

Minn., St. Paul — See "Material and Equipment."

Ark., Altheimer—Apr. 17, by Bd. Impvt. Water Works Dist. 1, 615 Citizens Bank Bldg., Pine Bluff, 75,000 gal. tank on 100 ft. tower, 1,395 ft. 6 in Class "B" c.i. pipe, 6,865 lin.ft. 4 in. pipe, 16 standard 2 way fire hydrants, 13 gate valves. $25,000. F. Bennett, 410 Citizens Bank Bldg., Pine Bluff, engr. Noted Jan. 31.

Ont., Smith Falls — Apr. 21, by J. J. Marsh, chn. Waterworks Dept., filter plant and dam, penstock and bulkhead, 15,000 gal. elevated tank, two 1,700 gal. per minute low head pumps. E. E. Darling, 47 Home Bank Bldg., Toronto, engr.

BIDS RECEIVED

N. Y., Dunkirk—Bd. City Water Comrs., 8 m.g. additional pump in pump house, Robin and Front Sts., from Worthington Pump & Mchy. Corp., 115 Bway., New York City, $41,795. Noted Mar. 20.

O., Cleveland—Cuyahoga Co., Mar. 26, 11,000 ft. 6, 8 and 12 in. c.i. mains in Lee Rd. and Lee Center subdivision, Impvt. 553, from A. Marra Co., Ulmer Bldg., $44,978.

Wis., Hartford—See "Sewers."

CONTRACTS AWARDED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Fillmore, Island, Narrows and Williams Aves., Aves. N P and Y, Delamere, Elmore and Kenmore Places, Banker, Douglass, Hendrickson, Herzl, Percival, Smith, 54th, 56th, 63rd, 73rd, 77th, 94th, East 12th, East 27th, East 93rd, West 6th, West 11th and West 12th Sts., etc., here, to Grippo Contg. Co., $24,300. Noted Apr. 3.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Washington, Wilson, 4th, 6th 7th and 9th Aves., Chauncey, Front, 4th, Hancock, Kindred, Marion and Sherman Sts., here, to S. Gallucci, $14,000; in Ava Pl., Putney Rd., 6th, 14th, 33rd, 35th and 72nd Aves., Gardiner, 4th, 6th, 16th, 19th, 160th, 161st, 202nd and 203rd Sts., to Stanhy Constr. Co., 10,961; in Dickens, Dix and Mott Aves., etc., to G. V. Cronell, $9,460. Noted Apr. 3.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Blair, Crosby, Ferris and Lawton Aves., etc., to Paladino Contg. Co., 437 East 120th St., $18,739; in Britton, Bronxwood and Duncom Aves., etc., to Knight & Demicco, Inc., 448 East Tremont Ave., $12,045. Noted Apr. 3.

Pa., Phila.—Dept. Pub. Wks., Room 216 City Hall, 9,800 lin.ft. 36 and 42 in. c.i. and steel mains in Hunting Park Ave., Contr. 664, and 550 tons 24 in. c.i. mains in 12th St., Contr. 666, to J. J. McHugh, 1617 Race St., $287,845 and $67,282 respectively; 930 tons 12 in. c.i. mains in Castor, Rahn and Cottman Sts., Contr. 665, to M. and J. B. McHugh, 892 North Markoe St., $97,772; condenser shells, piping, fittings, valves, etc., at Lardners pumping sta., Contr. 667, to Acme Machine Co., 316 North 17th St., $1,850. Noted Apr. 3.

Md., Baltimore—Bd. Awards, w.i. pipe, couplings and malleable iron fittings, to Southern Supply Co., Calvert and Saratoga Sts., $6,300; 36-in. venturi meter and special register, to Builders Iron Fdry. Co., 9 Codding St., Providence, R. I., $4,650. Noted Mar. 6.

N. C., Dunn—Extending water and sewer lines, 5½ mi. 14 in. pipe, filter plant, pumping station, 1 m.g.d. reservoir, etc., to Guion & Withers, Gastonia, $263,000. Noted Mar. 6.

S. C., Hartsville—For 500,000 gal. rein.-con. reservoir 20 x 30 ft. brick building, 2 motor driven centrifugal pumps, 1,000 g.p.m., also 4,700 ft. 6- to 12-in. c.i. water-main extensions and 6,100 ft. 8, 10 and 12 in. sewer pipe extension with manholes, flush tanks, Y branches, to Davis Constr. Co., Walton Bldg., Atlanta, Ga., $51,786. Noted Feb. 21.

O., Columbus—See "Streets and Roads."

Ill., Litchfield—Citizens Waterworks, Inc., filtration plant, dam, etc., general contract to J. T. Walbridge, 1014 South Michigan Ave., Chicago, $259,226; filter equipment to F. B. Leopold, Inc., House Bldg., Pittsburgh, Pa., $22,000. Noted Feb. 21.

Ill., McLeansboro—For 250 kw. uniflow engine generator, switchboard, etc., to Chuse Eng. & Mfg. Co., Chemical Bldg., St. Louis, Mo., $17,400. Noted Mar. 20.

Wis., White Fish Bay—See "Sewers."

Ia., Albia—Filtration plant and pumping station, to E. L. Royer Constr. Co., 1322 32nd St., Des Moines, $11,500; pumps, motors and vacuum pumps, to Dayton-Dowd Co., Quincy, Ill., $2,850; pipes and fittings, to U. S. C. I. Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, $2,550; Valves, to Iowa Valve Co., Oskaloosa, $1,115.

Kan., Newton—Pumping plant, to E. N. Jones, Leavenworth, $99,650.

Minn., Minneapolis—F. S. Gram, city purch. agt., to McWane Pipe & Fdry. Co., Birmingham, Ala., 2,800 lengths 2½-in. c.i. pipe laterals, each 5 ft. 5½ in. long, $2.95 per length; c.i. pipe, various sizes, to U. S. Cast Iron Pipe & Fdry. Co., Amer. Trust Bldg., Birmingham, Ala., 6 pieces 24-in. $6.70, 8 pieces 24-in. $6.40, 7 pieces 20-in. $5.05, 100 pieces 16-in. $4.14, 20 pieces 12-in. $2.36, 8 pieces 12-in. $2.27, 4 pieces 8-in. $1.38, 10 pieces 8-in. $1.34; to Crown Iron Wks. Co., 1229 Tyler St., 40 tons structural material and special castings for new filter plant, $3,950. Noted Mar. 20.

Sewers

PROPOSED WORK

N. Y., Binghamton—Common Council and Bd. Pub. Wks. had plans prepared Trout Brook sewer, providing surface and sanitary drains from Glenwood Ave. to Front St. $150,000. B. Winsor, comr. Pub. Wks.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, soon takes bids sewers in Sect. 2 of Foster Ave. at intersection of Ft. Hamilton Parkway and 62nd St. and intersection of Foster Ave. and Ocean Parkway. $2,900,000.

Sewers (Continued)

N. Y., Hamburg—Election soon $400,000 bonds sanitary and storm water sewerage system. G. C. Diehl, 575 Ellicott Sq. Bldg., Buffalo, engr. Noted Jan. 17.

N. J., Sayreville—Boro Council, rejected bids Apr. 2, 2.63 mi. 8 in. and 1 mi. 10 in. vitr. tile sewer, 0.13 mi. 8 in. c.i. outfall sewer, 0.29 mi. 16 in. and 0.28 mi. 10 in. c.i. force mains. Will readvertise. Noted Mar. 20.

W. Va., Princeton — See "Streets and Roads."

La., Shreveport — Plans 8-26 in. vitr. clay sanitary sewers in Northside Business Dist. $275,000. A. J. Hawkins, City Hall, engr.

O., Akron—Plans sanitary improvement program in outlying districts of Akron, largest single project is proposed sewerage and water system serving villages of Springfield Center, Lakemore and Sawyerwood, involving 10 mi. trunk sewers, and 15 to 80 mi. lateral sewers, $300,000, other sewer projects will bring estimated cost up to $500,000. E. D. Barstow, Court House, engr.

O., Columbus—See "Streets and Roads."

O., Howenstine (North Industry, P. O.) —City of Canton soon takes bids additions to disposal plant near here. $800,000. W. E. Sarver, City Hall, Canton, engr.

Wis., Wausau—Making plans 10,000 lin. ft. sewers in various streets. $25,000. B. C. Gowen, city engr.

Minn., Waconia—Making plans sanitary sewerage system and disposal plant. $40,-000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs.

Mo., Joplin—Soon takes bids 8- to 30-in. sanitary sewers in various parts of city. $40,000. S. P. Ashcraft, city engr.

Mo., Perryville—Plans storm and sanitary sewers. $45,000-$60,000. Engineer not selected.

Tex., Ft. Worth—Making plans sewer line south of here. $30,000. D. L. Lewis, city engr.

Okla., Newkirk — Voted $25,000 bonds new outfall sewer, disposal plant, Imhoff tank. H. E. Musson, Grain Exch. Bldg., Oklahoma City, engr. Noted Mar. 20.

Wash., Kelso—Making plans storm sewerage system. $100,000. U. G. Jackson, city engr.

Calif., La Verne—Having plans prepared 6 mi. sewer system. To exceed $25,000. Black & Veatch, Fay Bldg., Los Angeles, consult. engrs. Noted Nov. 20.

Calif., Pasadena—Will receive new bids sewer on Arroyo Blvd. from California St. to Brookside Park, 6,500 lin.ft. 22 in. vitr. pipe, etc. W. C. Earle, city engr. Noted Feb. 21.

Calif., San Diego—Had plans prepared sewer in Mission Beach, incl. 27,945 ft. 6 in., 865 ft. 8 in., 5,470 ft. 10 in. and 6,781 ft. 12 in. concrete pipe, 127 manholes, 6 flush tanks, one settling tank, 3 small pumping plants, about $2,000 each, also 1,200 ft. ocean outfall. F. A. Rhodes, city engr.

BIDS DESIRED

N. Y., Gloversville—Apr. 15, by Common Council, sanitary sewers in Hollywood Ave. and East Blvd. To exceed $50,000. W. H. Marple, city clk.

N. Y., Long Island City—Apr. 14, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Hunt, California, 95th, 97th and Ulster Aves.

N. Y., Long Island City—Apr. 15, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Hammels Blvd. and Amstel Ave.

N. Y., New York—Apr. 15, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Pelham Parkway, West 255th St., Waring, Taylor and Strang Aves.

N. Y., St. George — Apr. 14, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sewers in Arthur Ave., etc.

N. J., New Brunswick—Apr. 17, by Bd. Freeholders Middlesex Co., Bayard St., 1,700 vitr. tile, 1,200 ft. concrete and 700 ft. corrugated metal pipe. M. F. Larson, New Brunswick, engr.

N. J., Plainfield—Apr. 21, by Common Council, about 7,000 lin.ft. 18- to 54-in. storm sewers. A. W. Vars, city engr.; adv. E. N.-R. Apr. 10.

N. J., South Orange — See "Streets and Roads."

Md., Baltimore—Apr. 16, by Bd. Awards, constructing storm water drains in Dist. 48, Storm Water Contr. 66, 17,000 cu.yd. excav., 2,500 cu.yd. concrete masonry, 4,000 lin.ft. 24-54 in. rein.con. pipe drains, etc. B. L. Crozier, highways engr.

O., Akron — Apr. 20, by Bd. Control sewers in Willow Run Dist. and Ira Ave., $280,000. E. A. Kemmler, Delaware Bldg., engr.

Ind., Indianapolis—Apr. 29, by Bd. Sanitary Comrs. of Sanitary Dist., City Hall, additional interceptor construction; adv. E. N.-R. Apr. 10.

Mich., Detroit—Apr. 14, by Dept. Pub. Wks., monolithic concrete or brick sewer in tunnel, Wyoming Ave. from Davison to Eaton Aves., 4,461 ft. long, incl. 4,362 ft. of 7 ft. 6 in. and 99 ft. of 4 ft. 6 in. cylinder. G. Jerome, city engr.

Mich., Royal Oak—May 19, by R. B. Flaming, city clk., sewage pumping station and disposal works, 2 m.g. capacity. Hoad, Decker, Shoecraft & Drury, Ann Arbor, consult. engrs.; adv. E. N.-R. Apr. 10.

Calif., Los Angeles—Bd. Pub. Wks. taking bids and opens same about May 5, Main St. storm sewer system, incl., 9,000 lin.ft. double barrel rein.-con. rectangular section 6 ft. 9 in. high and width varying from 6 ft. 5 in. to 9 ft. 7 in. for each section; 8,000 ft. rectangular rein.-con. section from 5 ft. high by 6 ft. 7 in. wide to 6 ft. 9 in. high by 8 ft. 4 in. wide; 12,500 ft. rein.-con. rectangular section from 3 ft. 5 in. by 5 ft. wide to 5 ft. high by 5 ft. 3 in. wide; 9,800 ft. non-reinforced arch section from 5 ft. 11 in. high by 7 ft. wide to 6 ft. 6 in. high by 7 ft. wide; 11,100 ft. circular non-reinforced concrete pipe from 60 to 70 in. diam.; 59,000 ft. rein.-con. pipe from 24 to 66 in.; 23,000 ft. cement pipe from 12 to 21 in.; 20,000 ft. cement pipe sanitary sewer from 6 to 12 in.; 787 catch-basins; 179 manholes. J. A. Griffin, city engr. Noted Feb. 21.

BIDS RECEIVED

O., Cleveland — Vitr. clay sewers in Treadway Ave., from S. N. Khury, 3511 Walton Ave., $1,780; St. Catherine Ave., from J. Mandato and T. Basite, Cleveland, $525; Olympia Rd., from George & Ameen Constr. Co., 2192 East 19th St., $2,247; Hillview Rd., from L. A. Post & J. Ross, Cleveland, $7,623; Cliffview Rd. and Grovewood Ave., from A. Marra Co., Ulmer Bldg., $7,974 and $5,803 respectively; Burgess Rd., from Curro & Whittaker, 2269 Noble Rd., $7,978; Wickford Rd., from F. Hadded, 512 Fidelity Mortgage Bldg., $8,077. Work involves 7,820 ft. 12- to 24-in. vitr. clay pipe.

Mich., Dearborn—Laying 9,247 ft. storm water sewers in Michigan Ave. Dist., incl. 2,060 ft. 12 in., 2,140 ft. 15 in., 1,055 ft. 18 in., 880 ft. 20 in., 863 ft. 22 in., 908 ft. 24 in., 282 ft. 27 in., 232 ft. 30 in., 348 ft. 33 in., and 479 ft. 42 in. vitr. pipe, from Coffman Crane Service, 708 Empire Bldg., Detroit, $57,509. Noted Mar. 27.

Mich., Detroit—Dept. Pub. Wks., vitr. pipe Sewer 3977 from Western Constr. Co., 1208 Ford Bldg., $10,658; Sewer 4088 from Teetaert & Moran, 448 St. Clair Ave., $2,490; Oakman Blvd. Sewer Arm from W. Porath, 1410 West Grand Blvd., $22,100; Sewer 4100 and 4101 from Cousino Mercier Co., 13183 Wark St., $9,093 and $6,233 respectively. Noted Mar. 20.

Wis., Hartford—Sewage disposal plant and rein.-con. reservoir, from F. C. Eckerman, 316 19th Ave., Milwaukee, $21,098.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Reigelmann, boro pres., Boro Hall, to Nazzarro & Querriero, sewers in Bedford Ave. 82% engrs. est. ($11,561), 53rd St. 82% ($7,422), West 9th St. 83% ($6,946), New York Ave. 86% ($5,498), Quenton Rd. 86.49% ($2,678), 12th Ave. 96% ($1,502); to C. F. Vacharas, 645 40th St., West 9th St. 88.7% ($5,229), Beadel St. 86% ($450), Albany Ave. 91% ($3,539), 82nd St. 87% ($2,521), 4th Ave. 107% ($1,869); to Tomassetti & Co., Inc., 1133 60th St., Montgomery St. 95% ($4,139), Riverdale Ave. 99% ($15,257); to Manmill Constr. Co., 2035 Douglass St., Riverdale Ave. 89% ($1,723); to Tozzi Contg. Co., in 7th Ave. 88.74% ($1,650); to J. F. Colgan Co., in East 95th St. 82% ($74,750). Noted Mar. 27.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewer in Price St., etc., to P. F. Connelly Co., $42,618. Noted Mar. 27.

Md., Baltimore—Bd. Awards, 47,500 lin. ft. 5-24 sanitary sewers in Dist. 24-B and P-8, to N. Martello, 417 South Eden St., $169,573. Noted Mar. 20.

N. C., Dunn—See "Waterworks."

S. C., Hartsville—See "Waterworks."

O., Columbus—See "Streets and Roads."

O., East Cleveland (Cleveland P. O.)—For 4,080 ft. 4 ft. 6 in. segmental block sewer in Hayden Ave., to Manson Co., Engineers Bldg., Cleveland, $110,000. Noted Mar. 27.

Wis., Neenah—Vitr. clay storm sewers in various streets, to E. A. Yahr, Antigo, $29,065.

Wis., White Fish Bay—For 8 in. sanitary sewers and 6 and 8 in. c.i. water mains, to Wenzel & Henoch Co., 498 27th St., Milwaukee, and F. E. Kaminski, 785 45th Ave., West Allis. Noted Mar. 27, under Waterworks.

Neb., Howells—Sanitary sewerage system, vitr. clay pipe, to Asplund Constr. Co., Tecumseh, $29,700. Noted Feb. 7.

Mo., Carthage—For 6,227 ft. 18 and 24 in. sewers, Imhoff tank and disposal plant, to V. E. Koch, 14th and Texas Sts., Joplin, $100,691. Noted Apr. 3.

Wash., Seattle—Bd. Pub. Wks., sewage disposal works, Perry St. and Rainier Ave., to Olympic Constr. Co., 400 West Harrison St., Imhoff tank $8,700, contact tank $9,100, sludge bed $2,000, tank house $1,000, etc., total $27,377. Noted Mar. 20.

Calif., Los Angeles—Storm sewer in La Brea Ave., to Allied Constr. Co., 459 East 3rd St., $68,459.

Calif., Venice—See "Streets and Roads."

Bridges

PROPOSED WORK

Pa., Grove City—Comrs. Mercer Co., having plans prepared one 160 ft. and six 30 ft. spans over Wolf Creek on Chestnut St. $80,000. F. P. Graham, Blair and Mills Sts., engr.

Tennesee—See "Streets and Roads."

Kan., Oskaloosa—Jefferson Co., rejected bids 220 ft. steel bridge, ½ mi. from Perry, Federal Aid Project 175, Sect. A. Will readvertise. $49,934. Dodd & Finney, 216 West 6th St., Topeka, engrs. Noted Mar. 6.

Kan., Topeka — Plans 100 ft. concrete arch span across Shunganunga Creek on Van Buren St., to exceed $25,000. W. E. Baldry, 1106 West 13th St., engr.

Kan., Topeka — Shawnee Co. plans replacing steel span across creek at Davis St. with 130 ft. steel span, alternate on Luten arch. To exceed $25,000. A. C. Lagerwall, co. engr.

Tex., San Angelo—Tom Green Co. had plans prepared bridge over Middle Concho River and Highway 7, 120 ft. steel span, 100 ft. concrete trestle approaches, concrete floor. $50,000. T. J. Kelley, co. engr.

California—State Highway Comn., Sacramento, having plans prepared 5 bridges on state highway between Truckee and Nevada state line, to exceed $25,000; concrete bridge over Cottonwood Creek, Kern Co., $45,000. R. M. Morton, state highway engr.

Calif., Los Angeles—Plans to vote on $1,000,000 bonds, bridges to replace present structures. J. A. Griffin, city engr.

Calif., Ukiah — Mendocino Co. having plans prepared bridge over Big River, two 120 ft. Howe truss spans and 229 ft. trestle approach, either wood piers on concrete piles or concrete piers on 5 ft. steel cylinders. R. E. Donohue, co. surv.

BIDS DESIRED

Maine—Apr. 17, by State Hy. Comn., Augusta, Mile Stream Bridge in Howland, 20 ft. concrete slab; Upper Corner Bridge over Narraguagus River, in Cherryfield, 5 concrete slab spans, 254 ft.; Fernald Bridge over Pushaw Stream, Alton, 3 concrete slab spans, 67 ft. 3 in.; bridge over Barker Brook, in Lisbon, 12 ft. concrete slab span; Passcomaway Bridge over Cape Neddick River in York, 3 concrete spans, 128 ft.; Holt Stream Bridge in Norway, 20 ft. concrete. P. D. Sargent, ch. engr. Noted Apr. 3.

New Jersey—Apr. 28, by State Hy. Dept., Trenton, concrete encased plate girder bridge, also temporary bridge and removing existing bridge over Manasquan River, Monmouth and Ocean Counties in municipalities of Brick and Wall. A. L. Grover, secy.; adv. E. N.-R. Apr. 10.

Pa., Sunbury—May 26, by Joint Bd. Comrs. of Northumberland and Union Counties, at office Comrs., (Sunbury) constructing half through plate girder highway bridge across West Branch of Susquehanna River; adv. E. N.-R. Apr. 10.

N. C., Newton—Apr. 18, by Catawba Co. Hy. Comn., (Newton) bridge over Catawba River between here and Taylorsville. W. B. Kiker, Newton, consult. engr.; adv. E. N.-R. Apr. 10.

Georgia—Apr. 19, by State Hy. Dept., East Point, treated lumber bridge over Mulberry Creek, Federal Aid Project 17, Harris Co., 133 cu.yd. concrete, 9,400 lb. reinforcing, 44,000 ft. No. 12 and 20,320 ft. No. 8, treated timber, etc.; 704 ft. steel and concrete bridge on Thomaston-Zebulon Rd., Federal Aid Project 346, Upson Co., Alternate 1, 541 cu.yd. concrete, 71,000 lb. reinforcing, Alternate 2, 682 cu.yd. concrete, 87,400 lb. reinforcing, etc.; 5 creosoted timber bridges on Columbus-Atlanta Rd., Harris Co., 27,200 ft. untreated timber, 37,059 ft. treated timber, 3,080 lin.ft.

Bridges (Continued)

treated wood piling, 15,249 cu.yd. embankment. E. H. Davis, Griffin, engr.

Fla., Jacksonville—Apr. 21, by Comrs. Duval Co. at office of F. Brown, clk., bridge on Main St., No. 4 over Trout Creek, and on Orange Park Rd. No. 5 over McGirts Creek, incl. movable spans, several approach spans with embankment approaches connecting with present highway. Alternate bids on double leaf bascule spans, swing spans and on several types of approach spans. Noted Dec. 13.

O., Akron—Apr. 24, by Bd. Control, concrete bridges over Ohio Canal at Bartges St. $27,000. E. A. Kemmler, City Bldg., engr. Noted Jan. 3.

O., Cleveland—Apr. 23, by Cuyahoga Co., 930 ft. bridge, 80 spans, rein.-con. substructure, concrete superstructure, over Hilliard Rd. $894,000. F. Lander, Court House, engr. Noted Dec. 6.

Indiana—Apr. 15, by J. D. Williams, dir. State Hy. Comn., Indianapolis, **(r.c.g. means rein.-con. girder, r.c.s. rein.-con. slab, s.t. steel truss, r.c.a. rein.-con. arch, r.c.b. rein.-con. box)** two 24 ft. and one 28 ft. r.c.g., and one 18 ft. and one 20 ft. r.c.s., Hamilton Co.; two 40 ft. and one 55 ft. s.t., one 18 ft. r.c.s. and one 28 ft. r.c.g., Tipton Co.; one 48 ft. s.t. and two 24 ft. r.c.g., Steuben Co.; one 72 ft. s.t., one 30 ft. r.c.g. and one 65 ft. r.c.a., Miami Co.; one 16 ft. r.c.s. and one 30 ft. r.c.g., Delaware Co. and one 14 ft. r.c.s., Madison Co., one 8 ft., three 12 ft. and one 18 ft. r.c.s., one 5 x 5 ft. r.c.b. and two 30 ft. r.c.g., Clay Co.; one 20 ft. and one 16 ft. r.c.s., and four 50 ft. r.c.a., Fountain Co.; two 22 ft. and one 36 ft. r.c.g., two 8 ft., three 12 ft., one 16 ft. and one 18 ft. r.c.s., Warren Co.; one 14 ft. r.c.s., one 84 ft. s.t., one 4 x 4 ft. and one 8 x 6 ft. r.c.b., Wells Co.; one 12 ft. r.c.s., Vanderburgh Co., and one 30 ft. r.c.g., Gibson Co.; two 28 ft. and one 20 ft. r.c.g., one 18 ft. r.c.s. and one 31 ft. s.t., Noble Co.; one 5 x 4 ft. r.c.b., one 14 ft. and one 6 ft. r.c.s., Noble Co., one 31 ft. s.t., one 10 ft. and one 14 ft. r.c.s., DeKalb Co.; one 40 ft. r.c.a., three 16 ft. and one 5 ft. r.c.s., one 6 x 6 ft., one 5 x 5 ft. and one 4 x 4 ft. r.c.b., Owen Co., one 20 ft., one 12 ft. and one 10 ft. r.c.s., Putnam Co.; one 5 x 5 ft. r.c.b., two 60 ft. s.t., one 16 ft. and one 12 ft. r.c.s., Owen Co.; one 84 ft. s.t., Blackford Co., one 84 ft. s.t., one 14 ft. and one 20 ft. r.c.s., Jay Co.; two 84 ft. and one 84 ft. s.t., Scott Co.; one 28 ft. and one 38 ft. r.c.g., Martin Co.; three 65 ft. r.c.a., Blackford; one 28 ft. r.c.g., Starke Co.; eleven 38 ft. r.c.g., Parke Co.; two 84 ft. s.t., Elkhart Co. Steel superstructures for following: of two 40 ft. and one 55 ft., s.t., Tipton Co., and one 72 ft. s.t., Miami Co.; one 48 ft. s.t., Steuben Co., two 31 ft. s.t., Noble Co.; one 84 ft. s.t., Wells Co., one 84 ft. s.t., Jay Co., and one 84 ft. s.t., Blackford Co.; two 60 ft. s.t., Owen Co.; three 84 ft. s.t., Scott; two 84 ft. s.t., Elkhart Co.

Mich., Mt. Clemens—Apr. 17, by Macomb Co. Rd. Comn., two 90 ft. spans for Bridge 500401, on State Trunk Line Rd. 59, 495.6 cu.yd. Class A, 557.4 cu.yd. Class B and 195.1 cu.yd. Class C concrete, 184,240 lb. steel; also one 90 ft. span for Bridge 500404, 6 mi. southwest of here, 260.6 cu.yd. Class A and 295.8 cu.yd. Class B concrete, 93,380 lb. steel. G. C. Dillman, ch. engr.

Ill., Cambridge—Apr. 18, by County Supt. Highways Henry Co., one 45 ft. and one 60 ft. rein.-con. girders, and one 12 ft. rein.-con. box culvert. $25,000. J. H. Reed, co. engr.

Minn., Benson—See "Streets and Roads."

Nebraska—Apr. 15, at Senate Chamber in State House, Lincoln, one 55 ft. transverse joist girder bridge and incidental work on Seward Bridge Project 157, Seward Co., one 55 ft. skew bridge on Oxford Bridge Project 219, Harlan Co., one 40 ft. concrete girder bridge on Orleans West Project 220, Harlan Co., one 40 ft. concrete girder bridge on Orleans-Franklin Project 71 B, Harlan Co., and four 50 ft. concrete girder spans on Havelock-Ceresco Project 155 A, Lancaster Co. R. L. Cochran, Lincoln, state engr.

Tex., Coleman—Apr. 16, by Coleman Co. constructing substructure for new bridge also taking down and re-erecting 3 steel spans for 220 ft. bridge across Pecan Bayou. $40,000. W. E. Dickerson, co. engr.

Tex., Corpus Christi—May 20, by City Comrs., combination railroad and highway bridge, incl. single leaf bascule span, concrete approach spans and creosoted timber fender system. $100,000. R. J. Cummins, Bankers Mortgage Bldg., Houston, and E. E. Sands, 5418 Austin St., Houston, engrs.

California—Apr. 21, by State Highway Comn., Sacramento, 12 rein.-concrete bridges between Old Elk Grove and Sacramento, as follows: 2 spans, 18 ft., Sta. 217-85; 10 spans, 18 ft., Sta. 295-56; 3 spans, 12 ft., Sta. 310-77; 3 spans, 18 ft., Sta. 402-02; 2 spans, 18 ft., Sta. 449-56; 1 span, 20 ft., Sta. 519-84; 1 span, 20 ft., Sta. 522-93; 3 spans, 18 ft., Sta. 487-10; all foregoing to have 24 ft. roadway; 2 spans, 18 ft., Sta. 583-15; 3 spans, 18 ft., Sta. 594-42, two latter 30 ft. roadway; existing bridges 17 ft. span, Sta. 614-10 and 11 ft. span, Sta. 647-05, to be widened to 30 ft. roadway. R. M. Morton, state highway engr.

California—Amer. Toll Bridge Co., 525 Market St., San Francisco, taking bids 18,000 tons carbon and silicon steel and special eyebars erected for superstructure of bridge over Carquinez Straits from Solano to Contra Costa Co. C. E. Derlith, c/o University of California, Berkeley, consult. engr.

BIDS RECEIVED

North Carolina—State Hy. Dept., Raleigh **(S. P. means State Project)**, rein.-con. culverts and bridges, S. P. 721, Caldwell Co., from R. W. Curtis, Lynchburg, Va., $40,645, on S. P. 568, Moore Co., from T. J. Newell, Lillington, $42,277, on S. P. 156, Martin Co., from J. A. Peterson, Montgomery, Ala., $65,720; rein.-con. bridge over Pee Dee River, S. P. 610, Anson and Richmond Counties, from Hardaway Contg. Co., 909 Elizabeth Ave., Charlotte, $292,609. Noted Mar. 13.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, Apr. 4, one 50 ft. girder and 1 concrete culvert on Route 43, Sect. 1B, Menard Co., from H. C. Neiland, Monee, $10,647; thirteen 35 ft. rein.-con. deck girder spans on Route 22, Sect. 13D, Will Co., from Keokuk Quarry & Constr. Co., Keokuk, Ia., $131,609; 3 concrete girders on Route 27, Sect. 4B, Carroll, from W. H. Shons, 109-111 Spring St., Freeport, $28,477; 3 concrete girders, 1 concrete slab and 1 concrete culvert, Combination E, Sects. 12B and 13B, Adams Co., from Herrick Constr. Co., Carlinville, $65,992. Noted Mar. 27.

Mont., Polson—See "Streets and Roads."

Tex., Glen Rose — See "Streets and Roads."

Tex., Greenville — See "Streets and Roads."

CONTRACTS AWARDED

Alabama—State Hy. Dept., Montgomery, several small bridges on new sites, Baldwin Co., to F. D. Harvey & Co., Montgomery, $88,045. Noted Apr. 3.

Tenn., Nashville—City will repair bridges over Cumberland River on Sparkman and Jefferson Sts., by day labor. $300,000. Freeland, Roberts & Co., Independent Life Bldg., engrs. Noted Apr. 3.

Mich., Port Huron—State Hy. Comn., Lansing, Bridge 771001, St. Clair Co., 73 cu.yd. Class A and 246.8 cu.yd. Class B concrete, 12,750 lb. steel, to Hill & Belknap, East Tawas, $14,341, Bridge 771301 over Black River, Grant Twp., St. Clair Co., 563.2 cu.yd. Class A, 598 cu.yd Class B and 143.1 cu.yd. Class C concrete, 204,627 lb. steel, to R. Adler, Yale, $49,440. Noted Mar. 13.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, **(1-38D Johnson means Route 1, Sect. 38D, Johnson Co.)** to W. H. Shons Co., 109-111 Spring St., Freeport, bridge on 1-38D Johnson $29,653, on 34-7B Pope $29,643; to Zimmerly Bridge Co., Paris, bridge on 16-4B and 16-5B Coles $47,000, on 32-1B Shelby and 32-2B Moultrie $45,000; to Vincennes Bridge Co, Vincennes, Ind., bridge on 32-2C Moultrie $15,857; to Illinois Steel Bridge Co., Jacksonville, bridge on 9-45C Peoria $7,626; to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., bridge on 1-38E Johnson $13,906, on 34-6C Pope $12,886, on 34-7C Pipe $19,578; to Pub. Wks. Constr. Co., Century Bldg., St. Louis, Mo., bridge one 8-20C Iroquois $11,845; to W. D. Lonergan Constr. Co., New Madrid, Mo., bridge on 17-5 Marshall and LaSalle Counties, and on 17-6, LaSalle, $276,170; to M. C. Merrils, Belleville, bridge on 34-6B Pope $42,610; to C. D. Strattan, Little York, bridge on 3-26B Mercer $8,566. Noted Feb. 15.

Ill., Charleston—Dept. Pub. Wks. & Buildings, Springfield, one 30-ft., one 180-ft. and one 75-ft. spans over Embarass River, near here, to Zimmerly Bridge Co., Paris. Engrs. est. $50,000.

Ia., Nevada—Storey Co., 8 culverts and extensions, 4 I-beams and one 120 ft. high truss span, to B. J. Cole, Ames, $29,208. Noted Mar. 6.

Ia., Rockwell City—Supervs. Calhoun Co., 1 I-beam span and 2 pony trusses, to Wickes Eng. & Constr. Co., 418 Polk Blvd., Des Moines, $13,485; 4 box culverts, 1 pony truss span and 5 I-beam spans, to Rodies & Bales, Strawberry Point, $25,052. Noted Mar. 6.

Wyoming—See "Streets and Roads."

Montana—See "Streets and Roads."

Tex., Houston — Harris Co. concrete bridges on Scott St. Rd., to W. M. Bates, Ballaire, $43,544. Howe & Wise, co. engrs.

Dams

PROPOSED WORK

New York—See "Unclassified."

Tex., Bay City—See "Unclassified."

Calif., Oakdale—Oakdale Irrigation Dist. had preliminary plans prepared dam 160 ft. high, rock-fill type, in connection with Beardsley Flat project. System of gravity canals also planned. To exceed $500,000. R. E. Hartley, ch. engr.

Calif., Redlands — See "Excavation, Drainage, Irrigation."

Calif., Winters — See "Excavation, Drainage, Irrigation."

Ont., Almonte—Town Council soon takes bids new dam and electric light plant. $30,000. C. Barber & Son, Meaford, engrs.

CONTRACTS AWARDED

Wash., Tacoma—I. S. Davisson, comr. Light & Water, concrete arch dam 275 ft. high, excavating and lining 800 ft. power tunnel, placing gates and valves, etc., to A. Guthrie & Co., 552 Sherlock Bldg., Portland, Ore., $881,194. Engrs. est. $1,162,000. Noted Apr. 3.

N. S., Halifax—See "Unclassified."

Railways

PROPOSED WORK

Ohio—Pennsylvania R.R. Co., Penn Sta., Pittsburgh, Pa., plans 15 mi. cutoff from Stark yards near Canton through Louisville to Bayard, 2,000,000 cu.yd. earth in establishing grade. W. D. Wiggins, ch. engr. m.w.

Arkansas—Arkansas R.R. Co., Star City, having preliminary plans prepared 45 mi. standard gage lines from Pine Bluff to Star City and from Star City to Monticello. R. G. Parker, Star City, one of incorporators.

Nova Scotia—Canadian Natl. Ry., McGill St., Montreal, Que., plans 67 mi. railroad from Sunnybrae to Guysboro. $3,500,000. C. S. Gsowski, McGill St., Montreal, ch. engr. of construction.

New Brunswick—Canadian Natl. Ry., McGill St., Montreal, Que., plans 41 mi. railroad from Kingsclear to St. Croix, $2,123,000. C. S. Gsowski, McGill St., Montreal, Que., ch. engr. of construction.

BIDS DESIRED

Washington — Bloeden-Donovan Lumber Co., Bellingham, taking bids 17 mi. railroad on Olympic Peninsula. $500,000.

Ontario—Apr. 17, by W. H. Maund, secy. treas. Temiskaming & Northern Ontario Ry., North Bay, constructing 17 mi. roadbed ready for ties and rails, from Cassidy to South Lorrain. S. B. Clement, North Bay ch. engr.

CONTRACTS AWARDED

New York—Transit Comn., 49 Lafayette Ave., New York, installations of tracks for portion of 14th St.-Eastern Line, to T. H. Reynolds Constr. Co., 50 Park Pl., New York, $22.513. Noted Apr. 3.

Tennessee — Southern Railway System, 4th and Sycamore Sts., Cincinnati, O., freight yards with cut off tracks, coal yards, coal handling equipment, etc., at Caswells (Knoxville, P. O.), to Foundation Co., 120 Liberty St., New York City. Est. cost $3,000,000.

Excavation, Drainage, Irrigation

PROPOSED WORK

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., Apr. 3, completing Sub-Division B of Sect. 2 of Buffalo River and Cazenovia Creek improvement, incl. channel of Buffalo River from Babcock to Seneca Sts., and channel of Cazenovia Creek to about 100 ft. easterly of South Park Ave., from Empire State Dredging Co., by H. Barnard, 233 Bway., New York City, $0.394 per cu. yd.; Cleveland Eng. Constr. Co., 778 The Arcade, Cleveland, O., place measurement, $0.195 per cu.yd. Noted Mar. 13.

Wis., Milwaukee—Rejected bids dredging rivers, channels and canals, 113 000 cu.yd. Will readvertise. $45,000. Noted Mar. 27

Calif., Del Mar — Santa Fe Irrigation Dist. plans to vote on $750,000 bonds. distributing system. J. B. Lippincott, Central Bldg., Los Angeles, consult. engr.

Calif., Oakdale—See "Dams."

Calif., Winters—California Central Irrigation Syndicate, c/o H. A. Strauss, Dir., Walker Bldg., Salt Lake City, Utah, having plans prepared system to irrigate 50,000 acres, incl. diversion works, rubble con-

Excavation, Drainage, Irrigation (Continued)

crete dam, 30 ft. high, 300 ft. long on top, 125 ft. long on bottom, with 3 radial gates; storage works, concrete dam, 150 ft. high, 380 ft. long on top, 80 ft. on bottom, 20 ft. wide at top with slopes of 1 to 2 on front and 0.67 to 1 on back, storing over 150,000 acre ft.; main canal, 180,000 lin. ft. long, 50 ft. wide on top, 30 ft. on bottom, about 5 ft. deep, here. $3,000,000. C. A. Tusch, 2211 Union St., Berkeley, consult. engr

BIDS DESIRED

Tex., Corpus Christi—May 20, by City Council, protective embankment in northern portion of city, incl. 3,100,000 yd. earth excav. $1,100,000. R. J. Cummins, 732 Bankers Mortgage Bldg., Houston, and E. E. Sands, 5418 Austin St., Houston, engrs.

Calif., Los Angeles — Drainage Impvt. Dist. 8, of Los Angeles Co., receiving bids drainage system, incl. 63,05 cu.yd. canal excav., 127,038 cu.yd. excav. in conduit trenches 19,200 cu.yd. concrete, 1,146,000 lb. steel, 6,622 lin.ft. 8 in., 889 lin.ft. 12 in., 1,030 lin.ft. 24 in, 5,970 lin.ft. 30 in., 5,588 lin.ft. 36 in. and 2,898 lin.ft. 48 in. concrete pipe, ditches to be concrete lined. J. E. Rockhold, co. surv.

BIDS RECEIVED

Calif., Williams — Williams Irrigation Dist., 13 mi. connecting canal, 140,000 cu. yd. earthwork, from D. McDonald, P. O. Box 170, Sacramento, $0.1475 yd. Noted Mar. 27.

CONTRACTS AWARDED

Minn., Jackson—Jackson Co., Co. Ditch 7, 1,900 lin.ft. open ditch, 6,902 cu.yd. excav., 37,550 lin.ft. tile drains, to C. P. Lefquest, Redwood Falls, $19,965.

N. S., Halifax—See "Unclassified."

Streets and Roads

PROPOSED WORK

N. Y., Binghamton—Bd. Contr. & Supply, soon takes bids paving various streets. $200,000. E. Prentice, city engr.

N. Y., Cohoes—United Traction Co. plans removing trolley tracks and paving in between area 2.5 mi. in Mohawk, Vliet, Columbia and other streets. $75,000. E. Murphy, genl. mgr.

N. Y., Johnson City—Plans paving Floral and Ackley Aves., warrenite bitulithic. Election soon to vote on bonds (over $25,000). H. R. Brown village pres.

N. Y., Syracuse—Making plans 70 ft. boulevard following old Erie Canal line throughout city. To exceed $250,000. T. H. Mather, city engr.

N. J., Mt. Holly—Burlington Co. plans improving 22,000 sq.yd. Kings Highway, near Camden. H. B. Smith, Mt. Holly, engr.

Va., Richmond — Plans paving Ellwood Ave., 33rd, 34th and McDonough Sts., $65,904; curbing and guttering 21st and 22nd Sts., $11,000. A. J. Saville, dir. pub. wks.

W. Va., Philippi—Barbour Co., Valley Dist., election Apr. 23, $80,000 bonds, 7 mi. roads. J. F. Heavitt, clk.

W. Va., Philippi—Union Dist., Barbour Co., voted $325,000 bonds for roads.

W. Va., Princeton—Plans election in May or June $100,000 bonds for roads and sewers.

Ga., Clayton—Rabun Co. voted $175,000 bonds for roads.

Fla., Miami—Dade Co. had estimates made improving New East Dixie Highway, $300,000; West Dixie Highway, $225,000, Canal Highway, $39,193, Everglades Ave., Red Rd. and bridge, $51,050; West Flagler St. extension and bridge, $52,500; roads in Dist. 4, $80,000, roads in Dist. 5, $100,000; completing Trail and widening South West 8th St., $400,000; North Miami Ave. extension $50,000. H. Crabtree, Miami, engr.

Fla., Ocala—Marion Co., election Apr. 30, $73,007 bonds, 6.6 mi. Rd. 1, Belleview to Sumter Co.; $263,846, 19.3 mi. Rd. 2, Ocala to State Rd. 5 via Martel; $182,798, 14 mi. Rd. 3, from Rd. 2 to Levy Co. line; $152,944, 12 mi. Rd. 4, from Rd. 2 via Flemington to Levy Co. line; $215,441, 16.5 mi., Rd. 5, Ocala to Alachua Co. via Anthony and Citra; $125,675, 9 mi. Rd. 6, Ocala to Ocklawaha River via Silver Springs; all foregoing 16 ft. of 6 in. limestone with tar or asphalt and slag surface; $122,678, 22.5 mi. Rd. 7, Ocklawaha River to Lake Co. line via Lynne; $130,449, 17 mi., Rd. 8 from Rd. 2 at Weirsdale to Lake Co. via Starks Ferry, two latter 16 ft., sand clay; $233,163, 21 mi. Rd. 9, from point on Rd. 6 to Putnam Co. via Fort McCoy and Orange Springs, 9 ft., 6 in. limestone with tar or asphaltic and slag surface. J. E. Walker, Ocala, engr.

Fla., Sandford—Seminole Co. plans improving through roads, $733,000; roads in Dists. 1 and 2, $184,000; Dist. 3, $32,000; Dist. 4, $26,000; Dist. 5, $27,000.

Ala., Huntsville—Soon takes bids paving Randolph St. $50,000.

La., DeRidder—Beauregard Co. election Apr. 22, $85,000 bonds, road improvements.

Tennessee—Dept. Hys. & Pub. Wks., Nashville, plans to grade and surface 5.5 mi. Hartsville-Sumner Co. Rd., 16 ft., Trousdale Co., probably bituminous macadam. J. G. Creveling, highway comr.

Tennessee—Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading and limestone base on 12 mi. McMinnville-Rock Island Rd., 18 ft., Warren Co. J. G. Creveling, highway comr. Noted Oct. 4.

Tennessee—Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading, etc. 5.5 mi. road from Bells to Madison Co. line, incl. several small concrete bridges. J. G. Creveling, highway comr.

Tenn., Nashville—Davidson Co. plans resurfacing, etc., roads, mostly gravel and limestone macadam, oiled surface. $110,000.

Tenn., Waynesboro—Wayne Co. voted $85,000 bonds for roads.

Ky., Newport—Campbell Co. plans to issue $750,000 bonds for roads, etc. W. Milins, co. clk.

Ky., Paducah—Plans paving from Union Depot to 10th St., also grading and graveling various city streets. $25,000. H. A. Pulliam, city engr.

O., Cincinnati—See "Material and Equipment."

O., Cincinnati—Plans election $3,300,000 bonds extending parkway or boulevard system. F. Krug, City Hall, engr.

O., Cleveland—Plans to widen Euclid Ave., and open Chester Ave., East 13th and East 35th Sts. $710,000. R. Hoffman, City Hall, engr.

O., Columbus—Making plans grading, laying necessary water services, sewer connections and paving 4,147 ft. Brehl, Richardson and Burgess Aves., 26 ft., brick $75,768, asphalt $63,981; 2,940 ft. Ogden Ave., Warren and Doyle Sts., 24 ft., brick $51,302, asphalt $41,506; 6,850 ft. Broad St., 50 ft., asphalt $29,628; 445 ft. alley west of Hamilton Ave. (Chase St.), 16 ft., brick $2,992, concrete $2,658; 880 ft. alley north of 10th Ave., 15 and 25 ft., brick $7,385, concrete $6,550; 624 ft. alley west of Highland St. (Sunside Alley), 20 ft., brick $4,954, concrete $4,360. R. H. Simpson, city engr.

O., Lisbon—Columbiana Co. takes bids in spring paving about 1 mi. Wellsville-Salineville Rd., 16 ft., brick $57,275, concrete $39,845; about 1 mi. Unity-Petersburg Rd., 16 ft., brick $58,377. L. C. Kirk, Court House, engr.

O., Steubenville — Buena Vista Heights Co., Sinclair Bldg., rejected bids Mar. 25, improving 8,937 sq.yd. Buena Vista, Rosslyn and Kingston Blvds., waterbound macadam, for F. S. King and W. C. Brown. Noted Mar. 20.

Ind., New Albany—Plans concrete paving Market St. from Vincennes to East Sts., 40 ft., $16,505; Market St. from East to Thomas Sts., 30 ft., $2,035; Jay St. from Spring to Elm, 30 ft., $4,770; 9th St. from Spring to Elm Sts., 30 ft., $4,522. Address Assistant City Engineer.

Michigan — State Hy. Dept. Lansing, plans grading 3 mi. Federal Aid Project 92, Bay Co., $60,000, 6 mi. Federal Aid Project 92, Saginaw Co., $120,000; grading and surfacing 5 mi. State Trunk Line Rd. 46-27, Gratiot Co., concrete, bituminous concrete or sheet asphalt, gravel surfacing (16 ft. wide) 9.1 mi. State Trunk Line Rd. 77-2, Sects. A and B, Schoolcraft Co., 7 mi. State Trunk Line Rd. 12-28, Gogebic Co., and 8 mi. State Trunk Line Rd. 12-41, Gogebic Co. G. C. Dillman, ch. engr.

Michigan — State Hy. Dept., Lansing, opens bids about May 1, grading and gravel surfacing 6 mi. State Trunk Line Rd. 25-15, Sect. C, Chippewa Co., also 6.26 mi. State Trunk Line Rd. 25-15, Sect. B, Chippewa Co. G. C. Dillman, ch. engr.

Michigan — State Hy. Dept., Lansing, opens bids about May 15, grading and surfacing 1 mi. State Trunk Line Rd. 75-3, Dickinson Co., concrete, bituminous concrete or sheet asphalt. G. C. Dillman, ch. engr.

Mich., Detroit — Having plans prepared grading and paving with 3½ in. sheet asphalt on 8 in. concrete, 7,500 sq.yd. Proctor Ave. $45,760, 1,000 sq.yd. Horatio Ave. $6,160, also 7,300 sq.yd. one course concrete in 5 alleys, $18,380. G. Jerome, city engr.

Mich., Detroit—Wayne Co. plans grading and surfacing Larned St., from Lieb to Mt. Elliot Sts., concrete or bituminous concrete, $94,000.

Wis., Wausau—Had plans prepared paving 15,000 sq.yd. Bridge and Lemke Sts., Chicago and Adams Aves., two course rein.-con., vibrolithic, asphaltic concrete or brick. $40,000-$50,000. B. C. Gowen, city engr.

Ia., Davenport—Making plans grading and paving 40 alleys, 6-in. concrete. C. J. Stephenson, city engr.

Minn., Detroit — Becker Co. will sell $250,000 bonds, road improvements this season. C. T. Ebeltoft, aud.

Minn., Glenwood — Pope Co. will issue $152,000 bonds for road improvements this season, will take bids soon grading, etc., 23 mi. road between Westport and Starbuck. F. M. Sheperd, Glenwood, engr.

Kan., Abilene—Soon takes bids grading and surfacing with concrete 1 mi. streets, incl. 10,000 lin.ft. concrete curb and gutter. $51,000. C. Nicoley, City Hall, engr.

Kan., Hiawatha—Brown Co. plans grading, etc., Federal Aid Project 223, 5.663 mi., Sect. A, and 6.704 mi. Sect. B, 26 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., engrs.

Kan., Independence — Montgomery Co. plans grading 20 mi. Coffeyville-Caney Rd. $90,000. H. K. Hibbard, Independence, engr.

Kan., Kansas City—Wyandotte Co. rejected bids fine grading and concrete surfacing 0.873 mi. gaps on Federal Aid Project 102. Will readvertise. $26,201. O. K. Williamson, co. engr. Noted Mar. 6.

Kan., Olathe—Johnson Co. making plans concrete paving 10 mi. South Shawnee-Olathe Rd., 18 ft. E. C. L. Wagoner, 608 Jemper Bldg., Kansas City, Mo., engrs.

Kan., Topeka—Soon takes bids 49,000 sq.yd. 2 in. asphaltic concrete on 7 in. base, 30,000 lin.ft. gutter and sidewalk, 20,000 yd. grading, 12,415 ft. 10- to 36-in. storm sewers. W. E. Baldry, 1106 West 13th St., engr.

Nebraska — State Hy. Dept., Lincoln, plans 86.09 mi. grading in 15 counties, incl. 847,750 cu.yd. excav., $732,000, also 155.34 mi. gravel surfacing in 15 counties, 1,861,262 sq.yd. gravel, $581,640. R. L. Cochran, ch. engr.

N. D., Willston—Williams Co. having plans prepared grading 11.5 mi. road between Tioga (Williams Co.) and White Earth (Mountrail Co.) $35,000.

Mont., Great Falls—Cascade Co. plans grading 16 mi. Smith River Rd., between Great Falls and White Sulphur Springs, also concrete bridge over Smith River, $35,000. J. E. Moran, clk.

Missouri—State Hy Dept., Jefferson City, plans grading, etc., 4.951 mi. road in Barry Co., 30 ft.; graveling 67,889 cu.yd. and grading 46,529 cu.yd. roads in Clark, Perry and Madison Counties. B. H. Piepmeier, state highway engr.

Missouri — State Hy. Dept., Jefferson City, plans graveling 35,328 sq.yd. road in Cedar Co.; grading 27.217 mi. roads in Webster, Texas and Livingston Counties. B. H. Piepmeier, state highway engr.

Mo., St. Louis—Soon takes bids grading and resurfacing 7,680 sq.yd. Dodier St., $35,500, resurfacing 3,080 sq.yd. Enright St., $7,120, grading, granite curbing and paving 17,220 sq.yd. Virginia St., $84,000, all bitulithic on concrete. W. W. Horner, 300 City Hall, engr.

Arkansas—State Hy. Dept., Little Rock, soon takes bids grading and concrete surfacing 7 mi. Little Rock-Memphis Rd., Monroe Co. and 15 mi. in St. Francis Co.; 6 mi. Memphis-Pocahontas Rd. and 17 mi. Memphis-Jonesboro Rd., Poinsett Co., all 18 ft. R. C. Limerick, highway engr.

Ark., Benton—Plans grading and surfacing with concrete or asphaltic concrete 12 blocks, 30 ft. $35,000. Engineer not announced.

Tex., Angleton — Brazoria Co. making plans grading, surfacing with macadam and shell base and bituminous topping State Highway 19, Dist. 11, 16 or 18 ft. $350,000 bonds voted. C. A. Gavin, West Columbia, engr.

Tex., Austin—Travis Co. making plans grading and gravel surfacing 14.5 mi. road from El Roy to Moores Crossing, and G. Cloud School to South Austin, 16 ft., $40,000; grading 22 mi. Bee Caves Rd., 24 ft. $26,000. O. Leonard, Box 256, co. engr.

Tex., Bellville—Austin Co. voted $450,000 bonds, highways in Rd. Dist. 4. W. I. Hill, co. judge.

Tex., Brownwood—Brown Co. election soon $700,000 bonds, hard surfacing 24 mi. highway radiating from here, 18 ft. R. E. Lee, co. judge.

Tex., Cameron—Milam Co. soon takes bids grading and bridging 4.09 mi. State Highway 43, Dist. 29, 18 ft. $33,160. A. F. Mitchell, co. engr.

Streets and Roads (Continued)

Tex., Cameron—Milam Co. plans hard surfacing 13 mi. road from Rockdale north, Dist. 6, 18 ft. $250,000. A. F. Mitchell, co. engr.

Tex., Crowell—Having plans prepared paving streets in business section. To exceed $25,000. F. E. Devlin, Bitting Bldg., Wichita, Kan., engr.

Tex., Ft. Worth—Beacon Hill Land Co., F & M Bldg., had plans prepared paving, etc., 154 acre addition at Stop 6, Dallas Interurban. $60,000. Baker & Von Zuben, Ellison Bldg., engrs.

Tex., Ft. Worth — J. P. King, 1214 Presidio St., had plans prepared paving, etc., Riverside Park, 350 acre addition. $75,500. Baker & Von Zuben, Ellison Bldg., engrs.

Tex., Gonzales — Gonzales Co. making plans hard surfacing 11 mi. highway, 18 ft. $250,000. J. G. Irby, co. engr.

Tex., Huntsville — Walker Co. voted $1,500,000 bonds improving roads. Noted Mar. 6.

Tex., Linden—Cass Co. making plans and soon takes bids grading and concrete paving 4.99 mi. State Highway 48, Atlanta to Johns Creek, 9 ft. $122,989. F. E. Hess, Medical Arts Bldg., Dallas, engr.

Tex., Memphis—Hall Co. making plans grading 5.5 mi. State Highway 18, Rd. Dist. 4, 24 ft. shoulder to shoulder. $41,390. C. L. Hasie, Box 168, engr.

Tex., San Angelo—A. De Berry and associates, San Angelo Natl. Bank, having plans prepared development of 158 acre subdivision, Hyde Park Addition, streets to be paved, etc. $75,000. H. Fry, Magnolia Bldg., Dallas, engr.

Tex., San Antonio — Soon takes bids widening 5 blocks Market St., from 31- to 70-ft. $65,000. S. Ewig, city engr.

Tex., San Diego—Duval Co. election May 3, $3,00,000 bonds, hard surfacing 11 mi. Laredo-Corpus Christi Rd., 18 ft.

Okla., Blackwell—Having surveys made grading and paving 8 blocks 8th, North, 1st and East Dewey Sts., 8,000 sq.yd. vertical fibre brick, 6,000 lin.ft. curbing, 2,400 cu.yd. excav. $30,000. W. Ritzhaupt, Blackwell, engr.

Okla., Enid—Garfield Co. preparing plans grading and paving 35 mi. roads, 18 ft. $500,000. F. W. Denner, co. engr.

Okla., Pawnee—Pawnee Co. having surveys made grading and paving 7 mi. roads in Keystone and Cimmaron Twps., 18 ft. $40,000. A. P. Walker, Pawnee, engr.

Okla., Sapulpa—Creek Co. having surveys made grading and paving 8 mi. secondary roads, 18 ft. $40,000. C. K. Howard, Sapulpa, engr. Noted Dec. 13.

Okla., Waurika—Plans grading and paving 4 blocks Bway., 9,000 sq.yd. vertical fibre brick and 2,400 lin.ft. curb and gutter. $26,000. F. E. Develin, 318 Sedgwick Bldg., Wichita, Kan., engr.

Colo., Denver — Making plans curbing, grading and surfacing ½ mi. to ⅜ mi. in North Denver Impvt. Dist. 34, $121,287; concrete paving 12 blocks Alley Paving Dist. 109, $26,349, 12 blocks Alley Paving Dist. 110, $25,000; 12 blocks Alley Paving Dist. 111, $26,412; 12 blocks Alley Paving Dist. 112, $25,000. A. K. Vickery, City Hall, engr.

Wash., Kelso—Making plans paving 4th and 5th Sts. S., $60,000. U. G. Jackson, city engr.

California—State Highway Comn., Sacramento, making surveys road up North Fork Feather River Highway between Oroville, Butte Co., and Quincy, Plumas Co. $5,000,000 to $6,000,000. R. M. Morton, state highway engr.

Calif., El Cerrito—Had plans prepared improving Pomona, Carmel and Ramon Sts., 45,000 sq.ft. asphaltic madam, 6,000 sq.ft. concrete gutter, 3,000 lin.ft. concrete curb, 15,000 sq.ft. concrete walks, etc. R. L. Calfee, 222 South 2nd St., Richmond, engr.

Calif., Los Angeles—Had plans prepared improving St. Andrews Pl., incl. 99,249 sq.ft. Warrenite-bitulithic, 6,075 sq.ft. walks, etc.; Alley southwest of 4th St. between Chicago and St. Louis Sts., 24,498 sq.ft. 4 in. bituminous; El Nido St., asphaltic concrete (Topeka) pavement. J. A. Griffin, city engr.

Calif., Los Angeles—Had plans prepared improving Irolo St., 96,700 sq.ft. Warrenite-bitulithic, 1,883 sq.ft. walks, 5,464 sq.ft. gutter, 4 170 sq.ft. bituminous base; Larga St., 37,967 sq.ft. oil and roll, 7,218 sq.ft. walks, 6,101 sq.ft. gutter; 74th and San Pedro Sts., 98,055 sq.ft. 6 in. concrete, 28,715 sq.ft. Warrenite-bitulithic, 5,215 ft. curb, 25,985 sq.ft. walks, 2,517 sq.ft. gutter. J. A. Griffin, city engr.

Calif., Los Angeles—Los Angeles Co. had plans prepared improving 1 mi. Rd. Dist. Impvt. 262, Ohio Ave., (Azusa Canyon Rd.), incl. 2,729 cu.yd. excav., shaping 12,062 sq.yd. roadbed, shaping 10,655 lin.ft. shoulders, 12,012 sq.yd. macadam; 1.94 mi. Rd. Dist. Impvt. 255, Ballona Ave. between Western Ave. and Hawthorne city limits, 6,200 cu.yd. excav., shaping 24,691 sq.yd. roadbed 22,703 sq.yd. Willite top, 22,703 sq.yd. Willite base, shaping 11,250 sq.yd. shoulders, 20,411 sq.yd. 5 in. granite subbase and shoulders; 3.71 mi. Rd. Dist. Impvt. 257, Michigan Ave. and Florence-Downey Rd., 17,948 cu.yd. excav., shaping 44,565 sq.yd. roadbed, 44,565 sq.yd. concrete, shaping 19,568 lin.ft. shoulders, etc.

Calif., Martinez—Contra Costa Co. had plans prepared improving highway, Rd. Impvt. Dist. 2, 80,000 sq.ft. 2½ in. asphaltic concrete with 1½ in. Warrenite surface, curbs, gutters, etc. R. L. Calfee, 222 South 22nd St., Richmond, engr.

Calif., Palo Alto—Plans paving streets in Crescent Park Tract. To exceed $25,000. J. F. Bxybee, Jr., city engr.

Calif., San Francisco—Had plans prepared improving Turk St. between Parker Ave. and Willard St., 52,975 sq.ft. asphaltic concrete, etc., $25,600; Turk St. between Masonic and Parker Aves., 86,000 sq.ft. asphaltic concrete, etc., $35,100; Masonic Ave., 40,398 sq.ft. asphaltic concrete, $14,000; San Jose Ave., 22,000 sq.ft. asphaltic concrete, 18,860 sq.ft. artificial stone sidewalk, etc., $11,700.

Calif., San Francisco—Rejected bids improving 48th Ave., 39,353 cu.yd. fill, 190,344 sq.ft. asphaltic concrete, etc. M. M. O'Shaughnessy, city engr. Noted Apr. 3.

Calif., San Jose—Plans paving 17 mi. streets during 1924. W. Popp, city engr.

Calif., San Rafael—Marin Co. having plans prepared improving highways, Superv. Dists. 4 and 5. $15,000 for each district. J. C. Oglesby, co. surv.

Calif., South San Francisco (Branch San Francisco)—Having plans prepared grading and paving ½ mi. road connecting Los Cerritos tract with Orange Ave., 60 ft. G. A. Kneese, city engr.

Que., Verdun—Plans to expend $84,000, construction and improvements of highways and streets, tar macadam; $75,000 extending asphalt parements on Wellington St. and Verdun Ave; $15,000 extending Wellington St., from 6th Ave. to Osborne St. H. Hadley, city engr.

Ont., Dresden—Kent Co. Good Rds. Com. plans to pave 4 mi. highway from here to Wabash, concrete. $140,000.

BIDS DESIRED

N. Y., Buffalo—Apr. 15, by Bd. Supervs. Erie Co., 29 City Hall, concrete paving Harlem Ave., Big Tree Rd. and Depot St. To exceed $25,000. G. C. Diehl, Ellicott Sq. Bldg., engr.

N. Y., Buffalo—Apr. 18, by Dept. Pub. Wks., paving and repaving Trenton Ave., Chelsea Pl., Andover and Cable Sts., vitr. brick or asphalt. To exceed $25,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., Long Island City—Apr. 14, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, etc., Corona Ave., 101st, Nicolls and 137th Sts.; curbing Potter Ave.; recurbing 81st St.

N. Y., New York—Apr. 15, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., curbing, laying sidewalks, etc., on East 132nd St.; paving Spencer St. and Greystone Ave.; grading, Ericson Pl., West 232nd St., Laconia and Gleason Aves.

N. Y., New York—Apr. 16. by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, flagging and laying sewers in Seaman Ave. and Cummings St.; repaving West Bway., granite blocks; curbing, recurbing, flagging, reflagging and sheet asphalt paving West 174th and West 175th Sts.

N. Y., New York—Apr. 17, by Park Bd., Municipal Bldg., repaving roadway of Spuyten Duyvil Parkway. F. D. Gallatin, pres.

N. Y., Plattsburg—Apr. 18, by Common Council, 40,000 gal. carpeting asphalt on various streets. I. L. Wood, city engr.

N. Y., Poughkeepsie—Apr. 16, by S. L. Davis, town superv., Arlington Firehouse, curbing, guttering, concrete sidewalks in Arlington and Southeast Ave. Sidewalk Dists., Contrs. 1 and 2. O. A. D'Luhosch, 54 Market St., civil engr. H. Dean, 234 Main St., consult. engr.; adv. E. N.-R. Apr. 10.

New Jersey — Apr. 28, by State Hy. Dept., Trenton,, rein.-con. paving Route 6, Sect. 10, Marlboro-Quinton, Cumberland Co., also Route 7, Sect. 3, Andersons Corner-Colts Neck, Monmouth Co. A. L. Grover, sec.; adv. E. N.-R. Apr. 10.

N. J., Bridgeton—Apr. 22, by Bd. Freeholders Cumberland Co., Court House, concrete paving 43,329 sq.yd. Sect. 1, Bridgeton-Port Norris Rd. W. M. Sharp, Bridgeton, co. engr.

N. J., Newark—Apr. 17, at office of T. L. Raymond, dir. Pub. Wks., City Hall, grading, curbing, flagging and asphalt paving Prospect Row, Fabyan Pl., Eastern Parkway, Cameron and Varsity Rds., South 11th, Montrose and Dover Sts., Grove and Park View Terraces, Berkeley, Keer, West End and 13th Aves., Heller Parkway from Ridge to 1st Sts., Heller Parkway from Summer to Mount Prospect Aves. $380,240.

N. J., New Brunswick—Apr. 17, by Bd. Freeholders Middlesex Co., Bayard St., 2,800 tons ¾, 1½, 2 and 2½ in. screenings, Grades A and B trap rock or dolomite. M. F. Larson, New Brunswick, engr.

N. J., Princeton—May 6, by Mayor and Boro Council, paving 1,845 ft. University Pl., 25 ft., 3 in. asphalt on 6 in. concrete. $32,500. G. M. Brown, 28 Wiggins St., engr. Noted Mar. 13.

N. J., South Orange—Apr. 11, by Streets & Highways Com., Village Hall, grading, curbing, guttering, laying sewers, 16,000 sq.ft. concrete sidewalks and paving 6.000 sq.yd. Highland Rd., bituminous macadam; curbing and laying 5,500 sq.ft. concrete sidewalks on Thorndon St.; laying sewers and grading 17,500 cuyd. Mayhew and Harding Drives; 1,580 lin.ft. sanitary sewers in Lenox Rd. and 5th St. I. T. Redfern, village engr.

Pennsylvania—Apr. 23, by State Hy. Dept. Harrisburg, 32 mi. road in 12 projects, bids also received Apr. 24, for 39 mi. road in 11 projects. P. D. Wright, secy.; adv. E. N.-R. Apr. 3 and 10.

Pennsylvania — Apr. 28, by State Hy. Dept., Harrisburg, constructing 12 projects totaling 40 mi., and Apr. 29, 11 projects, 43 mi., in 20 counties; adv. E. N.-R. Apr. 10.

Delaware—Apr. 30, by State Hy. Dept., Dover, constructing 1.903 mi. Walker-Deakyneville Rd., Contr. CN-14; 3.314 mi. Peppers-Lowes X Rds., Contr. CS-25; adv. E. N.-R. Apr. 10.

Va., Richmond—Apr. 11, by Bd. Supervs. Charles City Co., graveling 3.47 mi. River Rd., 4.76 mi. Holdcroft Rd., 6.35 mi. Salem Church Rd., 4.5 mi. road from Bourns Store on River Rd. to Binns Store on Roxbury Rd. J. M. Gill, chn.

W. Va., Moundsville—Apr. 28, by L. L. Stidger, clk., paving with asphalt, brick block or concrete, Park Pl., Elm, Walnut, Oak, Tomlinson and Parrott Aves., 1st, 2nd, 8th and 11th Sts. Bids will be received for either curbing or paving or for entire project. Noted Mar. 6.

W. Va., Williamson—Apr. 19, by Mingo Co., improvement 7.31 mi. Marrowbone Creek Rd., 38,600 lin.ft. clearing, 60,000 cu.yd. excav., etc.; 3.35 mi. Buffalo Creek Rd., 17,690 lin.ft. clearing, 19,900 cu.yd. excav., 11,100 cu.yd. borrow, etc. H. Cook, co. engr.

Georgia—Apr. 19, by State Hy. Dept., East Point, 7.611 mi. Thomaston-Zebulon Rd., Federal Aid Project 436, Upson Co., 561 cu.yd. concrete, 41,389 lb. reinforcing, 6.532 acres clearing, 83,928 cu.yd. earth and 4,512 cu.yd. rock excav., etc., E. H. Davis, Griffin, engr.; 3.7 mi. Cleveland-Balirsville Rd., Federal Aid Project 284, Union Co., 21,751 sq.yd. 6-in. compacted waterbound macadam, 3.7 mi. shouder construction, H. L. Furlow, Gainsville, engr.

Ga., Dalton—Apr. 14, by City Clerk, paving Cleveland St. and Thornton Ave., 50,000 sq.yd. asphalt on concrete wth concrete curbing, to exceed $25,000.

Florida—Apr. 18, by State Rd. Dept., Tallahassee, constructing 10.529 mi. Rd. 2, Lake Co., Federal Aid Project 44, incl. grading, hard surfacing, plain or rein.-con, asphaltic concrete, sheet asphalt, on either concrete or rock base, vitr. brick and bituminous macadam on rock base. All black top pavements to be with or without flush curbs. J. L. Cresap, state highway engr.

Miss., Ecru—Apr. 17, by J. C. Browning, city clk., 4 mi. 4 in. single course 1-2-4 mix concrete sidewalks, 5 and 6 ft.

La., Baton Rouge—May 14, by Comn. Council, paving 46 streets. J. W. Billingsley, City Hall, consult. engr.; adv. E. N.-R. Apr. 10.

Tenn., Gallatin—Apr. 17, by Mayor nd Bd. Alderman, asphaltic resurfacing 44,000 sq.yd. existing macadam pavement, alternate bids on Kentucky rock asphalt, asphaltic concrete (Topeka), bituminous macadam, (penetration method). Work incl. 7,800 tons broken stone, rolled in place. $50,000. H. B. Klyce, 506 4th and 1st Natl. Bank Bldg., Nashville, engrs. Noted Nov. 1.

Kentucky—Apr. 22, by State Hy. Dept., Frankfort, surfacing with waterbound macadam 6.5 mi. Somerset-Stanford Rd., State Project 22, Sect. G, Lincoln Co., 13,000 cu. yd. earth, 500 cu.yd. borrow and 250 cu. yd. rock excav., 28,160 sq.yd. scarifying and reshaping, 16,250 tons crushed stone,

Streets and Roads (Continued)

(includes 20% screenings), etc. J. S. Boggs, state highway engr.

O., Cleveland—Apr. 16, grading, curbing and paving Cedar Ave. S. E., Clairdon Ave. N. E., Coronado Ave. N. E., Corsica Ave. N. E., Forest Ave. S. E., Gifford Ave. S. W., Hydraulic Ave. S. E., Moore Court N. W., Wentworth Ave. S. W., East 37th, West 4th, West 20th, West 44th and West 59th Sts. R. Hoffman, city engr.

O., Cleveland—Apr. 19, by Cuyahoga Co., grading, curbing and paving Kinsman Rd. 6. $278,600. F. Lander, Court House, engr.

Michigan—Apr. 16, by State Hy. Dept., at office Bd. Oakland Co. Rd. Comrs., Pontiac, shaping and surfacing 0.648 mi. State Trunk Line Rd. 10-34, Sect. B, 7,606 sq.yd. asphalt, concrete or bituminous concrete; grading and surfacing 3.25 mi. State Trunk Line Rd. 10-41, 38,134 sq.yd. asphalt, concrete or bituminous concrete, 4.746 mi. Federal Aid Project 97, Sect. A, 55,567 sq. yd. sheet asphalt, concrete or bituminous concret.

Michigan—Apr. 17, by State Hy. Dept., at office Bd. Ottawa Co. Rd. Comn., Grand Haven, shaping and surfacing 1.502 mi. State Trunk Line Rd. 11-71, 1,884 tons bituminous wearing surface, 2,379 tons bituminous binder.

Michigan—Apr. 24, by State Hy. Dept. at office Mason Co. Rd. Comn., Ludington, grading and surfacing 0.994 mi. State Trunk Line Rd. 20-22 and 11-37, Mason Co., 11,697 sq.yd. concrete, asphalt or bituminous concrete, bids also received at office Lapeer Co. Rd. Comn., Lapeer, grading and surfacing 1.244 mi. State Trunk Line Rd. 36-4, Lapeer Co., 7,660 sq.yd. asphalt. concrete or bituminous concrete. G. C. Dillman, ch. engr.

Michigan—Apr. 25, by State Hy. Dept., at office Bd. Rd. Comn., Leland, grading and gravel surfacing 3.106 mi. State Trunk Line Rd. 22-13, Sect. A, 29,156 sq.yd. gravel, and 2.992 mi. State Trunk Line Rd. 22-16, Sect. D, 28,436 sq.yd. gravel, both Leelanau Co.

Michigan—May 1, by State Hy. Dept., Lansing, grading and gravel surfacing 4.99 mi. State Trunk Line Rd. 25-12, Sect. B, Chippewa Co. G. C. Dillman, ch. engr.

Ill., Harvey—Apr. 14, by J. A. Alten, secy. Bd. Local Impvts., City Hall, 40,000 sq.yd. concrete paving, 20,000 lin.ft. concrete curb and gutter.

Wisconsin—Apr. 24, by State Hy. Comn., at div. office 4, grading and surfacing Stevens Point-Wausau Rd. Federal Aid Project 37, Portage Co. and Stevens Point-Wausau Rd., Federal Aid Project 38, Portage Co. incl. 2,532 cu.yd. borrow, 25,994 cu.yd. earth excav., 87,062 sq.yd. concrete, etc. A R. Hirst, Madison, highway engr.

Wis., Janesville—Apr. 17, by Com. of Pub. Wks., grading, paving, curbing and guttering various streets. C. V. Kerch, city engr.; adv. E. N.-R. Apr. 10.

Wis., Madison—Taking bids paving with one course concrete, curbing and guttering Vista Rd., Woodrow and St. Paul Aves., 30 ft. $25,000. E. E. Parker, city engr.

Wis., Milwaukee—Apr. 14, by Dept. Pub. Wks., improving various alleys, 13,047 sq. yd. concrete and 4,360 cu.yd. grading. $40,000. G. Schwada, city engr.

Minnesota—Apr. 22, by State Hy. Dept., St. Paul, **(S. P. means State Project, F. A. P. means Federal Aid Project)**, 12 mi. S. F. 2-32, Sect. 2, F. A. P. 348, Sect. A, 156,000 cu.yd. excav.; 4 mi. S. P. 2-33, Sect. 1, F. A. P. 348, Sect C, 63,000 cu.yd. excav., Bridge 4230; 20 mi. S. P. 6-39, Sect. 2, F. A. P. 333, 206,000 cu.yd. excav., Bridges 4107 and 4136, 120 and 40 ft. respectively; 7 mi. S. P. 9-38, F. A. P. 311, 75,000 cu.yd. excav., Bridge 3923, two 23 ft. spans; 15 mi. S. P. 9-39, Sect. A, F. A. P. 352, 187,000 cu.yd. excav., Bridge 4253, 80 ft. long; 9.5 mi. S. P. 13-26, Sect. F, F. A. P. 346, 141,000 cu.yd. excav., Bridge 4046, 40 ft. long; 25 mi. S. P. 28-25, Sect. A, F. A. P. 360, 360,000 cu.yd. excav.; 20 mi. S. P. 29-23, Sect. A, F. A. P. 358, 340,000 cu.yd. excav., Bridge 4227, 50 ft.; 4.5 mi. S. P. 30-24, F. A. P. 336, 122,000 cu.yd. excav., Bridge 4159, 30 ft., and 2 mi. paving, comprising 29,000 sq.yd. and 6,600 lin.ft. curb; 9.5 mi. S. P. 56-24, Sect. C, F. A. P. 359, 74,000 cu.yd.; 12 mi. S. P. 59-22, Sect A, F. A. P. 357, 219,000 cu.yd. excav., Bridge 4239, two 20-ft. spans, and widening Bridge 1571; 23.5 mi. S. P. 64-24, Sect. D, F. A. P. 353, 250,000 cu.yd. excav., Bridge 4226, 30 ft.

Minn., Benson—Apr. 23, by D. P. Carney, aud. Swift Co., Job 2401, Sects. A, B and C, 59,538 cu.yd. excav., 56,327 cu.yd. overhaul; Job 2402, 23,062 cu.yd. excav., 8,533 cu.yd. overhaul; one 100 ft. steel span with rein.-con. abutments and one 16 ft. I-beam with rein.-con. abutments. $26,000. J. R. Johnson, Benson, engr.

Minn., Grand Rapids—Apr. 22, by T. Erskine, aud. Itasca Co., 8 mi. Job 2303, State Aid Rd. 9, Div. A, 52,218 cu.yd. earth, 1,458 cu.yd. loose rock and 1,230 cu.yd. solid rock excav., etc.; 9 mi. Div B, 108,097 cu.yd. earth, 5,959 cu.yd. loose and 4,772 cu.yd. solid rock excav., 4.7 mi. Div. C, 38,639 cu.yd. earth, 1,587 cu.yd. loose rock and 1,295 cu.yd. solid rock excav. $50,000. H. A. Le Sueur, Grand Rapids, engr.

Minn., Hastings—Apr. 15, by R. W. Downs, aud. Dodge Co., Job 2401, State Rd. 1, 64,836 cu.yd. excav., 103,183 cu.yd. overhaul, etc., gravel surfacing about 8 mi., $35,000; Job 2407, State Rd. 7, 37,793 cu.yd. excav., 19,511 cu.yd. overhaul, etc., $10,000. J. Swan, Hastings, engr.

Minn., Pipestone — Apr. 24, by T. A. Bailey, aud. Pipestone Co., grading, etc., 8.5 mi. road, 66,000 cu.yd. excav., 320 cu. yd. monolithic concrete culverts, also 4.26 mi. grading, 33.000 cu.yd. excav., 130 cu. yd. monolithic concrete culverts, for Pipestone Co., (Pipestone), and Rock Co. (Luverne). $25,000. H. A. Smith, Pipestone, and J. Brown, Luverne, engrs.

Minn., St. Paul—Apr. 21, by G. J. Ries, aud. Ramsey Co., grading, etc., Prescott connection between St. Croix Bridge and State Highway 3, 79,507 cu.yd. earth, 5,029 cu.yd. loose rock and 23,036 cu.yd. solid rock excav., etc. $60,000. P. N. Coates, 900 Guardian Life Bldg., co. surv. Noted Nov. 29.

Kan., Emporia—Apr. 28, by Clerk Lyon Co., grading and surfacing with concrete or brick 2.003 mi. Neosho Rapids Spur, Federal Aid Project 224, Sect. A, 21,148 sq.yd. surfacing, 11,277 cu.yd. earth and 55 cu.yd. rock excav. 212 cu.yd. concrete in culverts, 14,667 lb. reinforcing, etc. W. S. Ruggles, co. engr. Noted Mar. 20.

Kan., Leavenworth—Apr. 30, by Clerk Leavenworth Co., grading and surfacing with brick 3.201 mi. Stillings Extension, Federal Aid Project 234, Sect. A, 46,220 sq.yd. vitr. brick, 1,430 sq.yd. concrete, 31,327 lin.ft. concrete curb and gutter, 24,479 cu.yd. excav., etc.; 0.635 mi., Sect. A, 8,878 sq.yd. vitr. brick, 10.168 cu.yd. excav., etc. L. C. Clark, co. engr. Noted Mar. 27.

Kan., Troy—Apr. 25, (extended date) by Clerk Doniphan Co. grading 8.012 mi. highway, Federal Aid Project 169, Sect. A, 74,136 cu.yd. excav., 8,823 cu.yd. borrow, etc.; 7.292 mi., Sect. C, 110,582 cu.yd. earth and 200 cu.yd. rock excav., etc.; grading and surfacing with concrete or brick 1.004 mi., Sect. E, 19,963 sq.yd. concrete or vitr. brick, 10,441 cu.yd. excav., etc. Kansas Eng. Co., 1233 Western St., Topeka, engrs. Noted Mar. 20.

Nebraska—Apr. 15, at Senate Chamber in State House, Lincoln, gravel surfacing and incidental work on 8.14 mi. Nebraska City-Lincoln Project 133 A, Otoe Co., 96,600 sq.yd. gravel, 9.74 mi. Milford-East Co. line Project 134 A, Seward Co., 120,450 sq. yd. gravel, 1.99 mi. Ashland-Melia Project 107 B, Saunders Co., 23.500 sq.yd. gravel, 11.78 mi. Fremont-Ceresco Project 27, Sects. 1 and 2, Saunders Co., 142.250 sq.yd. gravel, 3.98 mi. D. L. D. Project 19, Lancaster Co., 56,300 sq.yd. gravel, 16.7 mi. Lincoln-Beatrice Project 18, Lancaster Co., 207,000 sq.yd. gravel, 9.78 mi. Washington Highway Project 2 C, Otoe Co., 121,000 sq. yd. gravel; grading, culverts and incidental work on 6.009 mi. Wahoo-David City Project 204 B, Saunders Co., Hebron-Nelson Project 164 D, Thayer Co., 0.85 mi. Ashland Cemetery-East Project 107 D, Saunders Co., 4,358 mi. Lincoln-Woodlawn Project 225, Lancaster Co., 10.49 mi. Wahoo-David City Project 204 A, Butler Co., and 2.01 mi. Sterling West Project 218 A, one 16 ft. and one 28 ft. I beam bridges and one 75 ft. pony truss, Johnson Co. R. L. Cochran, Lincoln, state engr.

Nebraska—Apr. 16, at Senate Chamber in State House, Lincoln, grading, draining and incidental work on 7.72 mi. Pierce-Wausa Project 136 B, Pierce Co., 1.63 mi. Central City-Eldorado Project 156 C, also 16 ft. I beam bridge, Hamilton Co., 3.93 mi. Center-Niobrara Project 113 B, Knox Co., 3.11 mi. Greeley Center-Wolbach Project 84 C, Greeley Co.; gravel surfacing, grading and incidental work on 5.34 mi. Grand Island-Cushing Project 60 B, Howard Co., 69.400 sq.yd. gravel, 7.344 mi. Norfolk-Battle Creek Project 139 B, Madison Co., 89.350 sq.yd. gravel, 8.5 mi. Norfolk-Columbus Project 5, Madison Co., 105,225 sq.yd. gravel, 2.348 mi. Norfolk-Columbus Project 5, Platte Co., 27,700 sq.yd. gravel, 5.663 mi. Central City-Clarks Project 216 A, Merrick Co., 66,378 sq.yd. gravel. R. L. Cochran, Lincoln, state engr.

Nebraska—Apr. 17, at Senate Chamber in State House, Lincoln, gravel surfacing and incidental work on 6 mi. Beatrice-Crab Orchard Project 122 A, Gage Co., 49,300 sq.yd. gravel, 14.51 mi. Overton-Cozad Project 39, Dawson Co., 188,000 sq.yd. gravel, 22.04 mi. Red Cloud-Hastings Project 32, Webster Co., 285,500 sq.yd. gravel, 2.5 mi. Beatrice-Fairbury Project [illegible], Gage Co., 28,800 sq.yd. gravel; grading, culverts and incidental work 2.82 mi. Ringgold-Tryon Project 111 B, McPherson Co., 1.49 mi. earth road Arnold-Stapleton Project 96 B, Logan Co., 2.87 mi. earth road Arnold-Stapleton Project 96 A, Custer Co., 3.68 mi. earth road Ravenna-Sweetwater Project 212, Sherman Co., 6 mi. earth road Ansley-Sargent Project 127 A, also two 24 ft. and one 22 ft. I-beam bridges, Custer Co., 8.18 mi. earth road Ord-Arcadia Project 193 A, also three 12 ft. I-beam bridges, Valley Co. 0.744 mi. earth road Hazard-South Project 92 B, also one 22 ft. I-beam bridge, Sherman Co., 2 overflow pavements on North Loup-Ord Project 85 A, Valley Co. R. L. Cochran, Lincoln, state engr.

Nebraska—Apr. 18, at Senate Chamber in State House, Lincoln, grading, earth roads, culverts, and incidental work on 3.5 mi. Capital Highway Project 208, and one 100 ft. pony truss bridge, Richardson Co., 6.02 mi. Hay Springs-Chadron Project 124 A, Sheridan Co., 4.38 mi. Tecumseh-Auburn Project 116 B, and widening I-beam bridge, Nemaha Co., 6.07 mi. Alliance-Chadron Project 76 D, Box Butte Co., 14.01 mi. Gordon North Project 223, and one 16-ft. I-beam bridge Sheridan Co., 0.67 mi. Big Springs-Megeath Project 224 A, Deuel Co., 1.59 mi. Big Springs-Megeath Project 224 B, and one 24 ft. I-beam bridge, Keith Co.; gravel surfacing 3.705 mi. Lewellen-Oshkosh Project 117 B, 26,753 sq.yd. gravel, Garden Co., 6.153 mi. Alliance-Antioch Project 21, 58,000 sq.yd. gravel, Box Butte Co., 2.08 mi. Lewellen-Oshkosh Project 117 A, 24,445 sq.yd. gravel, Garden Co.; 4.82 mi. paved road Millard-West Project 100, Douglas Co., 4.93 mi. paved road Florence-Elk City Project 187, Douglas Co.; two 33 ft. and one 38 ft. I-beam bridges, and incidental work on York Bridges Project 143 D, York Co. R. L. Cochran, Lincoln, state engr.

Neb., Omaha—Apr. 14, by Douglas Co., paving Rd. 52, Lincoln Hy. to Military Rd., brick, concrete or asphaltic concrete. $80,000 or more. L. E. Adams, Omaha, engr.

Mo., Clayton—Apr. 16, by H. Jablonsky, engr. St. Louis Co., Court House, grading and surfacing 4.1 mi. Missouri Bottom, Auchon, Grensley and Mehl Aves., 2,326 squares 9 in. macadam, etc. $25,000.

Mo., Kirksville — Apr. 21, by E. L. Barnes, city clk., grading, curbing and rein.-con. paving 14 blocks Normal and McPherson Sts., 30 ft.

Tex., San Antonio—Apr. 28, by A. C. Pancoast, engr. Bexar Co., topping 37,000 sq.yd. St. Hedwig Rd., Precinct 4, 1 in. cold rolled Uvalde rock asphalt, $30,000; 4 mi. gravel base St. Hedwig Rd., Precinct 4, 18 ft., $25,000.

Okla., Grandfield — Apr. 14, by G. H. Hoeffer, city clk., grading and paving 5 blocks 2nd St., 11,000 sq.yd. concrete, 6.500 lin.ft. concrete curbing, 3,660 cu.yd. excav. $41,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, archts. Noted Mar. 20.

Colorado—Apr. 15, by State Hy. Dept., Denver, concrete paving and bridging 0.892 mi. Federal Aid Project 116-B, El Paso Co., 496 cu.yd. concrete, 18,500 cu.yd. earth and 400 cu.yd. rock excav., 9,710 sq.yd. one course plain cement concrete pavement, alternate bids for bituminous surfacing on concrete. $75,573. L. D. Blauvelt, state highway engr.

Colo., Denver—Apr. 15, by Dept. Impvts. & Parks, asphalt paving in East Denver Paving Dists. as follows: No. 12, 12 blocks, $40,412, No. 13, 12 blocks, $40,106, No. 14, 12 blocks, $55,017; South Capitol Hill Paving Dists. as follows: No. 1, 12 blocks, $46,057, No. 3, 12 blocks, $43,223, No. 4, 12 blocks, $45,115, No. 7, 12 blocks, $42,358, No. 8, 12 blocks, $49,092, No. 10, 12 blocks, $49,654; West 33rd Ave. Paving Dist. 1, 12 blocks, $45,064. A. K. Vickery, city engr.

California—Apr. 21, by State Highway Comn., Sacramento, surfacing 9.7 mi. between Janesville and point 4 mi. west of Milford, Lassen Co., crushed gravel or stone. R. M. Morton, state highway engr. Noted Mar. 20.

California—Apr. 28, by State Highway Comn., Sacramento, improving 1.2 mi. highway between Sea Cliff and Rancho El Rincon, Ventura Co., also constructing seawall, incl. 63,100 cu.yd. sand embankment, 17,050 cu.yd. structural excav., 6,910 lin.ft. subgrading, 1,000 cu.yd. concrete curb, paving and walks, 16,250 cu.yd. concrete seawall, 990 cu.yd. concrete for culverts, etc.

Calif., Daly City (Branch San Francisco) —Apr. 21, by City Trustees, improving Roosevelt, Templeton Sts., etc., 900,000 sq. ft. 4 in. concrete with 1½ in. Topeka asphaltic concrete surface, curbs, gutters,

Streets and Roads (Continued)

walks, etc. **G. A. Kneese, Redwood City, engr.**

Calif., San Anselmo—Apr. 21, by Town Trustees, improving Woodland and Ross Aves., etc., 382,292 sq.ft. grading, 385,627 sq.ft. asphaltic concrete, 30,320 lin.ft. concrete curb, 44,893 sq.ft. concrete gutter, etc. J. J. Jessup, town engr. Noted Apr. 3.

Calif., San Francisco—Apr. 16, by Bd. Pub. Wks., improving Marina Blvd. from Steiner to Lyon St., 87,907 sq.ft. asphalt with 6 in. foundation, 1½ in. binder course and 1 in. wearing surface, 20,808 sq.ft. artificial stone walks, 3,304 lin.ft. concrete curb, 6,608 sq.ft. vertical fibre brick gutter, etc. $55,000. M. M. O'Shaughnessy, city engr.

Nova Scotia — Apr. 15, by Provincial Highway Dept., Halifax, graveling 15 mi. main highway from Halifax to Yarmouth, and 16 mi. Baddeck-Port Hawkesbury Highway.

Quebec—Apr. 16, by J. L. Boulanger, Dept. Rds., Quebec, applying bituminous oil on 12 highways, 629,100 ft., also on 838,000 ft. highways in various municipalities.

Ont., Ottawa — Apr. 15, by Ottawa Suburban Rd. Comn., 279 Carling Ave., 3 mi. bituminous macadam roadway on Richmond Rd. north of Richmond. $30,000. A. K. Hay, engr.

BIDS RECEIVED

New York—A. W. Brandt, comr. highways, Albany, Apr. 4 **(e. e. means engineer's estimate)** constructing and reconstructing 8.55 mi. Highways 1671, 1668, 8176 Saugerties-Palenville, Parts 2, 1-A and I-B. Greene and Ulster Counties, from J. L. Hayes Constr. Co., Inc., 53 South Bway., Yonkers, $355,264, e. e. $387,928; 6.48 mi. Repair Contr. 1397, Genesee Co., from Rochester Vulcanite Pavement Co., Exch. Pl. Bldg., Rochester, $290,896, e. e. $299,771; 5.08 mi. Highway 8172, Bolivar-Wellsville, Part 1, Allegany Co., from Weber Co., Ionia, Mich., $252,974, e. e. $288,079; 2.92 mi. Repair Contr. 1401, Gouverneur-Edwards, Part 1, St. Lawrence Co., from E. J. Anderson, Menands, Albany, $106,933, e. e. $107,443; 3.71 mi. Highway 5691, Utica-Poland, Part 2-B, Oneida Co., from Hines-McCabe, Inc., Cox Bldg., Rochester, $108,991, e. e. $141,051; 9.78 mi. Highway 8175, Fine-Starr Lake, St. Lawrence Co., from T. Holahan, 164 Lewis St., Rochester, $399,965, e. e. $404,306; 3.11 mi. Highway 1687, Willsboro-Keeseville, Part 1, Essex Co., from Lord Coopy & Fernia, Inc., Willsboro, $157,613, e. e. $165,181; 1.2 mi. Repair Contr. 1394, Oneida-Verona, Oneida Co., from Lane Constr. Corp., 37 Colony St., Meriden, Conn., $53,167, e. e. $57,847; 1.57 mi. Repair Contr. 1398, Hudson-Hollowville, Columbia Co., from Municipal Constr. Co., U. C. N. Bank Bldg., Utica, $66,876, e. e. $69,929; 2.66 mi. Repair Contr. 1400, Rochester-Scottsville, Part 2, Monroe Co., from F. W. and J. J. Crouch, Rochester, $109,757, e. e. $121,494; 6.89 mi. Highway 8177, Attica-Batavia, Parts 2 and 4, Genesee Co., from W. J. Gallagher, Medina, $241,211, e. e. $273,456; 3.42 mi. Highway 8174, Moores-Hemmingford, Clinton Co., from Miller, Haynes & Gillette Constr. Corp., Watertown, $139,937, e. e. $145,968; 2.37 mi. Repair Contr. 1396, Horseheads-Corning, Chemung Co., from E. V. Chappell, Binghamton, $96,993, e. e. $103,893; 3.05 mi. Highway 1688, Yates Co., from Houston & Burns, Hector, $148,236, e. e. $167,266; 2 mi. Repair Contr. 1399, Campbell-Bath, Steuben Co., from W. L. Collins, Hornell, $67,218, e. e. $76,844; 1.9 mi. Repair Contr. 1395, Highways 5366 and 3567, Greene Co., from Riteway Constr. Corp., New York City, $71,702, e. e. $78,623. Noted Mar. 20.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Apr. 3, from Cranford Co., 52 9th St., asphalt paving Bay Ridge Ave. $12,942, Ave. J $4,745, Mansfield Pl. $12,180, 40th St. $8,691, 48th St. $3,525, curbing, flagging and asphalt paving Lefferts Ave. $22,782, curbing and asphalt paving Mansfield Pl. $13,610; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., asphalt paving Bay 10th St. $8,748, East 40th St. $7,396, 10th Ave. $10,237, 48th St. $3,525, West 12th St. $8,760; Borough Asphalt Co., 1301 Metropolitan Ave., asphalt paving Belmont Ave. $3,090, Thatford Ave. $8,876; L. Mangieri, 190 31st St., grading, curbing and flagging Canal Ave., etc. $7,965; F. Persicano, 350 Fulton St., grading, curbing and flagging Ave. O, etc. $9,155, Schenectady Ave. $5,005, 19th Ave. $3,610. Noted Mar. 27.

New Jersey—State Hy. Dept., Trenton, rein.-con. paving 5,793 sq.yd. Route 10, Sect. 2A, Broad Ave., in Ridgefield, Bergen Co., from E. C. Humphrey, 426 Summit Ave., Hackensack, $25,314; improving Route 16, Sect. 7, Bayard Lane-Princeton, Mercer Co., 4,988 lin.ft. concrete curbing, 3,071 cu.yd. grading, 11,155 sq.yd. rein.-con. paving, from G. Van Kueren, 76 Montgomery Ave., Jersey City, $64,465. Noted Mar. 27.

Pennsylvania—State Hy. Dept., Harrisburg, opened bids Mar. 31 **(A. means Application and R. means Route)**, 7,300 ft. A. 1952, Beaver Co., from J. B. Reed Co., 505 Bway., McKees Rocks, $83,215; 19,205 ft. R. 338, Clearfield-Jefferson Counties, from Avery & Bailey, Philipsburg, $193,040; 37,272 ft. R. 79, Butler Co., from Garvey-Weyenberg Constr. Co., 807 College Ave., Appleton, Wis., $417,996; 23,918 ft. R. 185, Schuylkill Co., from J. A. Rudolph, 27 Pine St., Tamaqua, $252,922; 2,289 ft. R. 170, Luzerne Co., from M. J. Malloy, Main St., Sugar Notch, $40,608; 12,205 ft. R. 68, Westmoreland Co., from J. C. Mickey, 1601 Ligonier St., Latrobe, $116,779; 24,823 ft. R. 65, Venango Co., from Woods & Golder Constr. Co., 212 Mechanic St., New Castle, $230,832; 4,160 ft. R. 86, Erie Co., from C. M. Spillier, 329 West 21st St., Erie, $36,893; 24,508 ft. R. 189, Armstrong Co., from L. H. Hileman Constr. Co., First Natl. Bank Bldg., New Kensington, $282,825; 10,855 ft. R. 247, Fayette Co., from A. G. Rothey, Elizabeth, $85,367; 6,068 ft. R. 146, Montgomery Co., from McNichol Paving & Constr. Co., 1923 Cherry St., Phila., $78,845; 10,560 ft. R. 2577, Clarion Co., from J. Wiesner, St. Marys, $92,991; 11,900 ft. A. 2800, R. 211, McKean Co., from E. C. Jones Great Valley, N Y., $118,244; 33,913 ft. R. 325, Washington Co., from Donora Constr. Co., Donora, $402,259; 20,505 ft. A. 2296, R. 208, Venango Co., from Jamieson & Narlee Co., Fredonia, $219,890; opened Apr. 1, fabrication and erection of 1 span pony truss bridge on R. 37, Franklin Co., from Mason & Savage, Warren, $21,026; Jacob-Heilman Bridge in Armstrong Co., from Standard Eng. & Contg. Co., 2463 Bway., Toledo, O., $42,613; 11 span concrete arch bridge 1,362 ft. long over Susquehanna River, on R. 25, Northumberland, Synder-Union Counties, from McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., $383,391; 5,292 ft. A. 2004, Venango Co., from Meredith, McVaugh & Webb, 1409 West 10th St., Erie, $70,570; 14,500 ft. R. 272, Erie Co., from McDermott Constr. Co., 14 Butler St., Niles, O., $78,545; 24,871 ft. A. 2776, Venango Co., from Standard Paving & Contg. Co., 210 East Ohio St., Chicago, Ill., $202,361; 36,960 ft. R. 212, Bradford Co., from Horn & Devling, Athens, $371,333; 11,360 ft. R. 74, Mercer Co., from Meredith, McVaugh & Webb, 409 West 10th St., Erie, $98,575; 26,406 ft. R. 146, Montgomery Co., from McNichol Paving & Constr. Co., 1923 Cherry St., Phila., $197,298; 18,385 ft. R. 88, Warren Co., from J. C. Devine Co., Alliance, O., $176,166; 18,375 ft. A. 31, Tioga Co., from Horn & Devling, Athens, $190,215 crushed stone, $188,574 gravel; 3,491 ft. R. 204, Beaver Co., from Allison-Harris Constr. Co., 1212 Pennsylvania Ave., East Liverpool, O., $35,444; 14,913 ft. E. 214, A. 2758, from A. R. Cooper, Idamar, $142,067; 20,637 ft. R. 99, Cameron Co., from W. A. Palmer, 431 East North St., Bethlehem, $209,482; 24,738 ft. R. 141, A. 1926; Berks Co., from D. L. Risser, 713 Walnut St., Lebanon, $200,584. Noted Mar. 13.

North Carolina—State Hy. Comn., Raleigh, **(S. P. means State Project)**, grading and concrete or asphaltic paving 10.99 mi. S. P. 537-B, Guilford Co., from Ziegler & Dalton Constr. Co., Junction City, Kan., $381,181, 14.14 mi. S. P. 201-B, Carteret Co., from F. Mitchell Constr. Co., Greenville, $501,227, 11.22 mi. S. P. 330, Columbus Co., from Coastal Constr. Co., Florence, S. C., $331,728, 8.23 mi. S. P. 421-B, Franklin Co. and 2.41 mi. S. P. 447, Lee Co., from R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $257,418 and $44,609 respectively; grading, etc., 8.6 mi. S. P. 102, Beaufort Co., from H. M. Beasley, Lumberton, $40,435, 12.52 mi. S. P. 720, Caldwell Co. and 11.96 mi. S. P. 568, Moore Co., from W. C. Carter, Mebane, $60,648 and $40,814 respectively; grading and top-soiling 17.5 mi. S. P. 156, Martin Co., from N. L. Teer, Durham, $129,179, 13.75 mi. S. P. 721, Caldwell Co., from J. T. Plott, Grensboro, $114,260, 12.2 mi. S. P. 162, Nash Co., from J. F. Mulligan Constr. Co., North Wilkesboro, $44,642; grading and concrete paving 16.51 mi. S. P. 686-B, Stanly Co., from Hardaway Contg. Co., 909 Elizabeth Ave., Charlotte, $538,317. Noted Mar. 13.

O., Cleveland—Improving with **(a)** brick **(b)** bituminous concrete, **(1)** 4,910 sq.yd. Harvard Ave., 2,905 lin.ft. stone curb, etc. **(2)** 1,475 sq.yd. Natchez Ave., 1,000 lin.ft. stone curb, etc. **(3)** 1,860 sq.yd. Nathaniel Ave., 4,200 lin.ft. stone curb **(4)** 4,085 sq. yd. Revere Ave., 1,570 cu.yd. excav., 2,650 lin.ft. stone curb, etc. **(5)** 7,545 sq.yd. East 112th St., 3,160 cu.yd. excav., 4,610 lin.ft. stone curb, etc. **(6)** 3,445 sq.yd. Clearare Rd., 2,500 ft. stone curb, etc., from A. M. Pejsa, 3161 Derbyshire Rd., Cleveland Heights **(a1)** $27,502; Roehl Bros. Paving & Constr. Co., Lorain Ave., **(b2)** $7,379; W. E. McHugh, Pavers Exch., **(2)** $7,531 **(b5)** $35,262; Highway Constr. Co., 901 Lorain Co. Bank Bldg., Elyria, **(a3)** $19,373 **(a6)** $15,594; Baldwin Bros., 4,500 Euclid Ave., **(a4)** $23,223 **(a5)** $35,538.

Michigan — State Hy. Dept., Lansing, grading and surfacing State Trunk Line Rd. 13-44, Sects. A and B, St. Joseph Co., 32,070 sq.yd. concrete, from W. Fredrich, Coldwater, $62,294. Noted Mar. 13.

Michigan — State Hy. Dept., Lansing, shaping and surfacing Federal Aid Project 101 C, Van Buren Co., 31,410 sq.yd. concrete, from Kalamazoo Paving Co., Kalamazoo, $55,786. Noted Mar. 13.

Mich., Detroit—Paving with 3½ in. sheet asphalt, from Detroit Asphalt Paving Co., 20 McGraw Bldg., Alwyne Lane $8,354, Diversey Ave. $23,826, Dalrymple Ave. $18,398, Floyd Ave. $31,066, Glynn Court $7,459, Hartwick Ave. $2,931, Merton Rd. $58,322, Manderson Rd. $21,418, Nardin Ave. from Grand River to Dundee Aves. $27,100, Nardin Ave. from Burlingame to Elmhurst Aves. $15,856, 2nd Ave. $14,024, Strathmoor Rd. $55,377.

Illinois—Dept. Pub. Wks. and Buildings, Div. of Highways, Springfield, Apr. 4, paving with 18-ft. concrete, **(0.96 mi. 7-X, LaSalle means 0.96 mi. Route 7, Sect. X, LaSalle Co.)**, 0.96 mi. 7-X, LaSalle, from Trompeter & Sons, Peru, $33,691; 7.45 mi. Combination A, Sects. 18 and 19, Iroquois, from Devine Constr. Co., Watseka, $135,000; 5.26 mi. 9-36, Adams, from List & Weatherly Constr. Co., 416 Railway Exch., Kansas City, Mo., $119,344; 13.51 mi. Combination B, Sects. 9 and 10, Gallatin and Saline, from C. E. Hamilton, Carbondale, $312,000; 16.69 mi. Combination C, Sects. 23, 24 and 25, Champaign, from Harrison Eng. & Constr. Co., Kansas City, Mo., $276,432. Grading 16.86 mi. Combination D, Sects. 11A, 12A and 13A, Adams, 282,535 cu.yd. excav., from McAndrew & Hannahs, $158,500; 7.79 mi. 27-4A, Carroll, 95,180 cu.yd. excav., from Phelan-Shirley Co., 206 South 24th St., Omaha, Neb., $42,428; 5.3 mi. 43A-1A, Menard, 73,550 cu.yd. excav., from Trompeter & Sons, Peru, $38,811. Noted Mar. 27.

Wis., Kaukauna—Paving, etc. **(1)** Wisconsin Ave. **(2)** Dodge St., incl. 13,740 sq. yd. pavement, 5,800 cu.yd. grading, 5,800 lin.ft. curb and gutter, from J. McCarty, Kaukauna, grading **(1)** $0.95 **(2)** $1.08, concrete pavement **(1)** $2.86 **(2)** $2.88, vibrolithic concrete **(1)** $2.80 **(2)** $2.82, curb and gutter $0.95. Noted Jan. 31.

Mont., Livingston—Park Co., gravel surfacing 2.77 mi. Federal Aid Project 59, Sects. A and B, from J. S. Staley, Bozeman, $25,019.

Mont., Polson—Lake Co. improving 3.92 mi. Arles-Ravalli Rd.: gravel surfacing from A. L. Markhus & Co., Missoula, $25,606; one 90 ft. steel pony truss bridge, from D. Graham, Missoula, $12,370.

Tex., Glen Rose—Somervell Co., grading, gravel surfacing and bridging 12.35 mi. State Highway 68, State Aid Project 474, 16 ft., from McClung Constr. Co., Cleburne, $109,740.

Tex., Greenville — Hunt Co., grading, gravel surfacing and bridging 2.61 mi. State Highway 1, Greenville-Commerce Rd., 9,294 cu.yd. roadway and 22,012 cu.yd. borrow excav., 5,888 lb. reinforcing, 6,856 lin. ft. creosoted timber piling, 81,429 ft. treated and 9,639 ft. painted lumber, from Austin Bridge Co., 1813 Clanrence St., Dallas, $43,884; 6,175 cu.yd. gravel to be furnished by county, $15,400. Noted Feb. 14.

Nevada—State Highway Comn., Carson City, concrete paving 1.27 mi. 1st and Ultman Sts. to east city limits of Ely, White Pine Co., from Strange & Vallandingham, Salt Lake City, Utah, $64,215; grading and graveling 8.03 mi. Derby to Fernley, Lyon and Washoe Counties, from King & Malone, Cheney Bldg., Reno, $45,128. Noted Mar. 20.

Calif., Oakland—Improving 5th St. from Oakland Paving Co., 5000 Bway., 202,627 sq.ft. grading $0.04, 194,754 sq.ft. 6 in. concrete with 2 in. Warrenite surface $0.30. Noted Jan. 31.

Calif., San Diego—Improving A, Ash, Beech, Cedar and 7th Sts., incl. 176,272 sq.ft. 1½ in. asphalt concrete on 2½ in. bituminous, 88,382 sq.ft. 4 in. cement concrete, 1,300 sq.ft. 1½ in. asphaltic concrete gutters, 4,101 sq.ft. concrete sidewalk, 1,522 lin.ft. concrete curb, from D. H. Ryan, 1615 Fern St., $45,160. Noted Mar. 20.

CONTRACTS AWARDED

R. I., Providence—Water Supply Bd., City Hall, grading and bituminous concrete paving 4 mi. road in Scituate, to J. H. Sullivan Co., Brighton (Boston P. O.), Mass., $218,565. Engrs. est. $200,000. Noted Apr. 3.

Streets and Roads (Continued)

N. Y., Cohoes—Bd. Contr. & Supply paving Columbia St. between Lancaster St. and Central Ave., to S. Scullen, Cohoes. Engrs. est. $40,000. Noted Feb. 21.

N. Y., Mount Morris—Completing brick pavements on Main and Chapel Sts., to Oliver-Costich Co., Exch. Pl. Bldg., Rochester, $60,702.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, regrading, curbing, recurbing, flagging, reflagging and granite block paving 5th Ave., etc., to Asphalt Constr. Co., 208 Bway., $45,220; granite block repaving 1st Ave., to W. J. Fitzgerald, 547 West 45th St., $464,050; repairing wood block pavement in railroad area, to Casper-Helbock Co., Harlem River and 150th St., $54,100. Noted Mar. 20 and 27.

N. Y., White Plains—F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, improving Anderson Rd., to Frederick Roeber Co., Inc., 507 5th Ave. New York, $149,766. Noted Feb. 28.

N. J., Newark—To J. B. Gilligan-Casey Co., 919 Broad St., sheet asphalt paving 600 sq.yd. Aldine St. $3,186, 900 sq.yd. Mulford Pl. $5,302, 1,150 sq.yd. Patton Pl. $6,934, 11,300 sq.yd. Weequahic Ave. $61,268; to Standard Bitulithic Co., 50 Church St., New York, 2,800 sq.yd. Brookdale Ave. $12,572, 5,100 sq.yd. Clinton Pl. $27,056, 4,500 sq.yd. Maple Ave. $25,348, 4,000 sq. yd. Osborne Terrace $19,095, 2,500 sq.yd. Tremont Ave. $14,843, 3,200 sq.yd. Underwood St. $15,871; to Newark Paving Co., 133 1st St., 5,100 sq.yd. Nye Ave., $33,701. Noted Mar. 20.

N. J., Oaklyn—Improving Kendall Blvd., Manor, Clinton, Landers and Oakland Aves., 30,200 sq.yd. concrete paving, 23,810 lin.ft. combination curb and gutter, to Fish-Rutherford, Inc., Real Estate Trust Bldg., Phila., $115,655.

N. J., Trenton—Paving West Hanover and North Montgomery Sts., to Union Paving Co., 30th and Locust Sts., Phila., $24,045; inside of trolley tracks on above streets, to A. Delucia, 52 Bayard St., $7,050. Noted Apr. 3.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. paving 15,222 sq.yd. Route 222, Cambria Co., to Crissey Constr. Co., Johnstown, $85,987; 52,202 sq.yd. Route 271, Sect. 1, Erie Co., to H. W. Horst Co., Horst Bldg., Rock Island, Ill., $288,093; 67,900 sq.yd. Route 79, Sect. 2, Lawrence and Butler Counties, to Garvey Weyenberg Constr. Co., Appleton, Wis., $340,387; 53,570 sq.yd. Route 79, Sect. 1, Butler Co., to Fort Pitt Constr. Co., Martin Bldg., Pittsburgh, $301,739; 21,265 sq.yd. Route 73, Butler Co. and 29,430 sq.yd. Route 69, Armstrong Co., to C. Winters Constr. Co., Renfrew, $91,540 and $96,705 respectively; 35,545 sq.yd. Route 133, Sect. 4, Delaware Co., and 44,311 sq.yd. Route 142, Chester Co., to Ambler Davis Co., Harrison Bldg., Phila., $137,796 and $160,608 respectively, grading Route 130, Delaware Co., to Vicenzo Di Francesco, Llanerch, $24,939. Noted Feb. 28.

Pa., Altoona—Paving 13,070 sq.yd. 27th and 26th Sts., Maple, 4th and 5th Aves., 7th and Walnut Alleys, to L. A. Brua, Hollidaysburg, $44,575; 2,765 sq.yd. 18th St., 8th and 3rd Alleys, to Vipond & Stapleton, Altoona, $9,945; 1,392 sq.yd. Oak Ave., to B. L. McKippil, Hollidaysburg, $6,869; 600 sq.yd. 15th Alley, to S. Dominek, Altoona, $2,433.

Pa., Phila. — Paving 15th St. from Moyamensing to Bigler Sts., to Barber Asphalt Paving Co., 239 North 30th St., $14,331; repaving, setting and resetting curb, in Dist. 3, to W. A. Ryan, 735 Real Estate Trust Bldg., $10,778; repaving, setting and resetting curb in Dists. 5 and 7, to J. J. McHugh, 1617 Race St., $19,911; repaving, resetting and setting curb in Dist. 6, to United Paving Co., 833 Real Estate Trust Bldg., $9,400; improving intersection of 34th, Walnut and Woodland Sts., to Eastern Paving Co., 401 Colonial Trust Bldg., $8,372.

Pa., Phila.—Bureau Highways, Dept. Pub. Wks., paving streets to Union Paving Co., Locust St., 66th Ave. $11,957, Bambrey, Taney, 23rd and 26th Sts. $30,267, Haverford St. from 33rd to 36th Sts. $23,486, Ritner, Wolf and 7th Sts. $48,149, Venango St. $13,843, 13th St. $58,686, 29th St. $51,692; to Barber Asphalt Paving Co., 239 North 30th St., Haverford St. from 60th to 63rd Sts. $48,713; to Eastern Paving Co., 401 Colonial Trust Bldg., Ridge Ave. $74,381, Frankford Ave. $59,900, Vine St. $33,205; to Muzzola Paving Co., 414 North Gross St., Lancaster Ave. $92,491. Noted Apr. 3.

Pa., Pittsburgh — Nicola Realty Co., Farmers Bank Bldg., will grade, pave and curb Pitcairn Pl., 1,500 yd. grading, 1,200 sq.ft. concrete pavement on 8 in. concrete, by day labor. F. G. Ross, 309 4th Ave., engr.

Md., Annapolis—State Rds. Comn., Baltimore, paving Severn River Bridge, near here, 4,800 sq.yd. concrete base, 8,800 sq. yd. bituminous concrete, to Amer. Paving Co., Montebello Ave., Baltimore, $34,635. Noted Apr. 3.

N. C., Statesville — Iredell Co., concrete paving 3½ mi. road from Mooresville towards Statesville, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $200,000.

Alabama—State Hy. Dept., Montgomery, grading 25 mi. Little River-Stockton Rd., 20 ft., Baldwin Co., to Stanley & Singer, La Fayette, $108,973. Noted Apr. 3.

La., Shreveport—Caddo Parish, grading and surfacing with concrete 110,160 sq.yd. various streets to Houston Constr. Co., 1209½ Capitol St., Houston, Tex., $274,307.

Ky., Burgin — Kentucky Hydro-Electric Co., M. E. Taylor Bldg., Louisville, 4,280 ft. approaches to Kennedy Mills Bridge over Dix River, near here, to Tevis & Ingram, Danville, $25,200. Noted Mar. 27.

O., Cleveland—Curbing, guttering and paving, etc., 24,860 sq.yd. East 112th, East 140th and East 176th Sts., bituminous concrete, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $32,685, $46,727 and $43,582 respectively; 7,660 sq.yd. Ferris and Harvard Aves., vitr. brick, to A. M. Pejsa, 3161 Derbyshire Rd., Cleveland Heights, $15,499 and $27,502 respectively. Noted Apr. 3.

O., Cleveland—Grading, curbing and paving East 119th St., to Enterprise Paving & Constr. Co., 3444 Bway., $19,602; Natchez Ave., to Roehl Bros. Paving & Constr. Co., Lorain Ave., $7,231; Revere Ave., to Baldwin Bros., 4500 Euclid Ave., $23,223. Work involves 6,180 lin.ft. 4 in. drain tile curb, 5,910 lin.ft. stone gutter, 3,735 cu.yd. earth excav., 9,110 sq.yd. vitr. brick on concrete. Noted Mar. 13.

O., Columbus—W. H. Duffy, dir. Pub. Serv., to B. F. Patterson, 1214 Neil Ave., grading, laying necessary water services and sewers connections and paving 735 ft. Wildwood Dr., 20 ft., asphaltic concrete $9,832, 379 ft. Terrace Ave., 20 ft., asphalt $4,980, 396 ft. Hibbert Ave., 20 ft., asphalt $4,428; to Franklin Asphalt Paving Co., 209 South High St., 578 ft. Parkwood Ave., asphalt, $7,980, 2,870 ft. Park St., 40 ft., $42,524; to J. G. Clifford, Columbus, 1,540 ft. 8 in. vitr. sewer in alley north of Green Lawn Ave., $3,095. Noted Mar. 27.

O., Louisville—To General Asphalt Paving Co., 1268 Dueber Ave. S. W., Canton, asphalt paving ¾ mi. Silver St., $32,140, engrs. est. $28,250, ½ mi. Mill St., 40 ft. $30,128, engrs. est. $31,275, ½ mi. Walnut St. $27,500, engrs. est. $27,500.

O., Ravenna—Portage Co., paving Kent-Franklin Twp. Rd. through Brady Lake, macadam, to Seiple & Wolf, Youngstown, $54,483. Engrs. est. $60,000. Noted Apr. 3.

Indiana—State Hy. Dept., Indianapolis, surface treatment and macadam on Rds. 5 and 16, Harrison and Floyd Counties, to C. L. Hart, Boonville, $30,490; 23.07 mi. Rds. 13, 2 and 27, Allen, Wells, Grant and Elkhart Counties, to McTurnan, Morris & McTurnan, Fairmount, $144,586; 42.3 mi. Rds. 42, 43, 8, 15, 2, 32, 50 and 7, Porter, Lake, LaPorte and Starke Counties, to L. Martini, La Porte, $186,255; 19.233 mi. Rds. 4, 22, 32 and 26, Lawrence, Monroe, Jefferson and Dearborn Counties, to Crowell & Stone, Columbus, $27,419.

Mich., Detroit—Paving alleys with one course concrete, to Thomas & Currie, 20 McGraw Bldg., Alley 1839 $7,451, Alley 1841 $6,569; to Otis Cement Constr. Co., 806 Hammond Bldg., Alley 1840 $7,272, Alley 1843 $5,640, Alley 1851 $2,089, Alley 1853 $1,035, Alley 1854 $646, Alley 1855 $5,326, Alley 1856 $3,324; to Bishop & Weir, 1305 Lafayette Bldg., Alley 1842 $5,399, Alley 1844 $5,291, Alley 1845 $4,900, Alley 1852 $1,834; to R. J. Powelson & Co., 6415 Iroquois Ave., Alley 1846 $4,767, Alley 1847 $3,410, Alley 1848 $2,613, Alley 1849 $3,117, Alley 1850 $3,539, Alley 1857 $3,191.

Mich., Halfway — Macomb Co. (Mt. Clemens) 4 mi. road connecting Van Dyke and Gratiot Aves., to J. McKay & Son, Detroit, $127,186.

Illinois—Dept. Pub. Wks., Div. Highways, Springfield, paving **(8-24 Livingston means Route 8, Sect. 24, Livingston Co.)**, 8-24 and 8-25 Livingston., to Shanks & Gannon Constr. Co., Watseka, $169,878; 25-15 Cumberland and 25-16 Cumberland and Coles, to Stresenreuter Bros., 3020 South Halsted St., Chicago, $238,800; 8-32 Woodford, to Hedges Constr. Co., Chicago, $60,506; 8-26A Livingston, to I. D. Lain, Bloomington, $13,064; 3-26 Mercer and 3-27 Mercer and Warren, to W. O'Neil Sons Co., Faribault, Minn., $196,994; 19-26 and 19-27 McHenry, to G. Welch, Beloit, Wis., $153,838. Grading 2-74A Lee, to F. M. Johnson, Dixon, $39,516; 34-6A, Pope and Hardin, and 34-7A Pope, to L. Rich Constr. Co., East St. Louis, $146,000; 32-1A, Shelby, and 32-2A Moultrie, to C. I. Jones, Omaha, $19,369. Noted Feb. 15 and 29.

Ill., Monticello—Paving 2 sections State Aid Route 2, 10,041 sq.yd. concrete, 19,955 sq.yd. earth shoulders and 8,2[illegible] cu.yd. excav., to Carnnie & Lyttle, Sullivan, Mo., $25,101. Noted Mar. 27.

Wisconsin—State Hy. Dept., Madison, concrete surfacing, etc. Fond du Lac-Ripon Rd., Sect. A to Cherney Constr. Co., Route 1, Francis Creek, $115,447; Sect. B, to Lampert Constr. Co., 11 Algoma St., Oshkosh, $15,647. Noted Mar. 20.

Wisconsin—State Hy. Comn., Madison, concrete surfacing, etc., Milwaukee-Menomonee Falls Rd., concrete, to Jacobus & Winding Concrete Constr. Co., 1 State St., Wauwatosa, $121,896. Noted Mar. 20.

Wis., Antigo — Paving various streets, warrenite bitulithic, to F. P. Caughlin Co., 30 North La Salle St., Chicago, $159,335. Noted Mar. 20.

Wis., Monroe—Improving various streets, to J. O. Legreid, First Natl. Bank Bldg., Stoughton, 19,500 sq.yd. concrete pavement $2.50, 5,000 lin.ft. concrete curb and gutter $0.80, 5,000 lin.ft. concrete sidewalk $0.20 per sq.ft. Engrs. est. $35,000.

Ia., Perry—Resurfacing various streets, to James Horrabin & Co., 1422 Walnut St., Des Moines, 34,000 sq.yd. bitulithic $1.10 per sq.yd., 17,000 sq.yd. wood block $0.59 per sq.yd.; Shocketon Constr. Co., Perry, 700 sq.yd. new 7-in. concrete $3.07. Noted Feb. 7.

Minn., Fergus Falls—Ottertail Co., Job 2301, State Aid Rd. 4, 77,106 cu.yd. excav., to Dieseth & Bergerud Constr. Co., Fergus Falls, $30,598; Job 2401, State Aid Rd. 13, 54,471 cu.yd. excav., 495 cu.yd. loose rock excav., 14,095 cu.yd. overhaul, to G. H. Clear Co., Fergus Falls, $21,623.

Minn., Moorhead—Paving, etc., with rock concrete 11 blocks 10th St. N. between Center and 5th Aves., and 1st St. N., to W. E. Kennedy Co., Fargo, N. D., $56,634. Noted Mar. 6.

Minn., St. Paul — Ramsey Co., grading, paving, etc., Lexington Ave. from County Rd. A to County Rd. E, 45,551 sq.yd. concrete, 18,736 cu.yd. excav., to C. F. Sculley Equipment Co., 211 Dakota Bldg., $143,108. Noted Feb. 28.

Neb., Madison—Madison Co., clay surfacing 9.44 mi. Federal Aid Project 139-A, Battle Creek-Meadow Grove Rd., to H. F. Nightingale, Atkinson, $36,300.

South Dakota—State Hy. Dept., Pierre, grading **(F.A.P. means Federal Aid Project)** 12.8 mi. F. A. P. 171 A, Roberts Co., to P. G. Thompson, Summit, $48,139; 9.42 mi. F.A.P. 169, Pennington Co., to W. R. Larson Constr. Co., 519 Secy. Natl. Bank Bldg., Sioux Falls, $58,437; 2.37 mi. F.A.P. 180 A, Walworth Co., to Dowd Bros. & Schreiber, Watertown, $25,370; 10.23 mi. F.A.P. 167 A, Bon Homme Co., to Sioux Constr. Co., Sioux City, Ia., $26,561; 6.06 mi. F.A.P. 162 B, Haakon Co., to England & England, Murdo, $25,864; 24.55 mi. F.A.P. 149 A, Spink Co., to T. J. Tobin, Madison, $57,726; 7.47 mi. F.A.P. 50 B, Sanborn Co., to Dowd Bros. & Schrieber, Watertown, $28,367. Noted Mar. 20.

Wyoming—State Highway Comn., Cheyenne, 2.2 mi. Federal Aid Project 160 A, Shoshoni-North Rd., Freemont Co., grading and surfacing, to T. E. Madden, Riverton, $8,048, drainage structures, to Peppard & Fulton, Casper, $11,800 (state pays for culverts and treated timber); 10.4 mi. Federal Aid Project 48 A, Orin Junction-East Rd., Converse Co., grading, surfacing and drainage structures, to Tyler & Baker Constr. Co., Rock River, $104,378; 3.8 mi. Federal Aid Project 150 B, Lingle-North Rd., Goshen Co., surfacing and grading, to R. Randolph, Torrington, $27,828, bridges, to Peppard & Fulton, Casper, $6,909, all foregoing 24 ft. Noted Mar. 27.

Montana—State Highway Comn., Helena, Federal Aid Project 196-A, Carlow-Glacier Park section Roosevelt Highway near Cutbank, grading, etc. 16.23 mi., to Fitzgerald & Staunton, 114 1st Ave., S., Great Falls, $94,577; two 33 ft. steel I-beam bridges on concrete abutments, to J. F. Harrington, Missoula, $8,221.

Ark., Camden—Grading, concrete surfacing, concrete curbs and gutters on 10 blocks, Dist. 6, to C. L. Besler, 231 South Chautauqua St., Wichita, Kan. Engrs. est. $45,000.

Ark., El Dorado—Grading and surfacing with concrete 5,700 ft. Dist. 17, to Plains Paving Co., Wichita Falls, Tex. Engrs. est. $54,000. Noted Feb. 28.

Tex., Angleton — Brazoria Co. grading 10.88 mi. State Highway 19, Federal Aid Project 367-B, 24 ft., incl. 62,777 cu.yd. earth excav., 52,278 cu.yd. borrow, 404 cu. yd. concrete, 35,876 lb. reinforcing, to D. H. Buchanan, Temple, $31,286, engrs. est. $37,052. Surfacing with shell and crushed rock with 1½ in. bituminous, will be let later. Total cost $206,166. H. W. Munson, Jr., Angleton, engr. Noted Mar. 6.

Streets and Roads (Continued)

Tex., Fort Worth—See "Unclassified" "Road Material" under Bids Desired.

Tex., Houston—Repairs to bituminous streets, to Uvalde Rock Asphalt Co., Milwaukee Bldg., $61,000.

Tex., Rio Grande City—Starr Co. improving 17.58 mi. State Highway 12, Federal Aid Project 337-A; grading, gravel surfacing, etc., to W. L. Pearson & Co., 827 1st Natl. Bank Bldg., Houston, $89,047; rein.-concrete drainage structures to W. T. Montgomery, Alamo Bank Bldg., San Antonio, $51,287, Project involves 77,140 cu.yd. earth excav., 87,719 cu.yd. borrow, 1,750 cu.yd. concrete, 37,273 cu.yd. gravel, 2,120 lin.ft. concrete piling, 181,737 lb. reinforcing. Noted Feb. 7.

Okla., Comanche—Grading and paving 9 blocks 3rd St., 7,200 sq.yd. concrete, 2,400 cu.yd. earth and 1,195 cu.yd. rock excav., to S. O. Maxey, Durant, 6-in. concrete $2.78, earth excav. $0.80, total $34,511. Noted Mar. 27.

Okla., Oklahoma City—Grading and paving Durland Ave. and 23rd Sts., 6,100 sq.yd. asphalt, to Western Paving Co., Tradesmen Bldg., Oklahoma City, $28,355. Noted Feb. 7.

Washington—State Hy. Comn., Olympia, grading, etc., State Rd. 11 from Walters to Four Lake, Spokane Co., to J. E. Edwards, South 1423 Adams St., Spokane, $10,547; Methow Valley Highway between Carlton and Twisp, Okanogan Co., to G. A. Banderet, Seattle, 22,010 cu.yd. excav. $0.30, 14,730 cu.yd. loose rock excav. $0.60, 5,490 sq.yd. crushed gravel surfacing $1.75, etc., total $30,743; State Rd. 3 from Walla Walla to Mill Creek, Inland Empire Highway, to H. L. Wilson, Walla Walla, $21,775; State Rd. 9 from Elma to McCleary, Federal Aid Project 141-A, Grays Harbor Co., to T. M. Morgan, 3202 Laurel Dr., Everett, $168,951; State Rd. 7 between Kittitas and Summit, Kittitas Co., to Campbell Constr. Co., Sunnyside, 20,220 cu.yd. excav. $0.34, 120 cu.yd. loose rock $0.90, 5,680 cu.yd. solid rock $50, 11,950 sq.yd. crushed rock surfacing $1.95, etc., total $42,126. Noted Feb. 28.

Ore., Portland—Asphaltic concrete paving 5,000 sq.yd. Gladstone Ave., to A. D. Kern, Exch. Bldg., $74,974. Engrs. est. $94,092.

Calif., Glendale—Improving portion Park and Adams Sts., to Pacific Paving Co., Metropolitan Theatre Bldg., Los Angeles, 39,700 sq.ft. grading $0.75, 26,200 sq.ft. 3 in. macadam $0.11, 1,315 ft. Class B curb $0.50, 6,700 sq.ft. walks $0.16.

Calif., Pleasanton—Improving various streets, 99,000 sq.ft. grading, 99,000 sq.ft. 5 in. concrete, etc., to Heafey-Moore-McNair, 2030 High St., Oakland, $25,000 or more.

Calif., Porterville—To N. M. Ball, Masonic Bldg., improving D St. between Mill and Vine Sts., also portion Vine St., incl. 117,730 sq.ft. grading and 5 in. concrete, 2,849 lin.ft. concrete curb, 1,092 sq.ft. concrete gutter, etc., $30,414; Orange St. between South Main and J Sts., 128,751 sq.ft. grading and 5 in. concrete, 4,310 lin. ft. concrete curb, 1,019 lin.ft. concrete culvert, $31,204; portion F St., $19,858. Noted Apr. 10.

Calif., Salinas—Improving Galbilan St., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, 6,150 sq.ft. grading $0.05, 58,820 sq.ft. 2 in. Warrenite bitulithic surface $0.13, 246 tons hard rock to repair base $2, etc.

Calif., San Diego—Improving Cedar and Date Sts., incl. 246,122 sq.ft. 1½ in. sheet asphalt on 3 in. bituminous, 8,636 sq.ft. cement concrete sidewalks, 2,216 lin.ft. concrete curb, 1,095 cu.yd. earth excav., to Griffith Co., 25 14th St., $44,992. Noted Apr. 3.

Calif., San Diego—Improving 22nd St. from A St. to Imperial Ave., incl. 212,811 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, to Griffith Co., 25 14th St., $33,870. Noted Mar. 13.

Calif., Venice—Paving Vernon Ave., etc., 4 and 5 in. concrete, sewers, curbs, gutters and walks, to S. Pearson, 3847 Bway., Los Angeles, $35,650. Noted Apr. 3.

Industrial Works

PROPOSED WORK

Mass., Greenfield—Garage and Service—Owner c/o M. R. Drew, archt., 288 Main St., having plans prepared 5 story, 200 x 210 ft., brick and steel, Federal St. $200,000.

New York—Power House—See "Unclassified."

N. Y., Albany—Plant—Albany News Co., 508 Bway., had plan prepared by W. J. and W. H. Stoneman, archts. and engrs., 416 Bway., 3 story, 87 x 110 ft., rein.-con., brick and steel, plain foundation, Orange St. $250,000.

N. Y., Baldwinsville—Mill—Amer. Knife Co. purchased Amos Mill and plans altering and building additions. $40,000-$50,000. A. J. Tooley, pres.

N. Y., Buffalo—Sub-station—Buffalo General Electric Co., Electric Bldg., plans brick, concrete and steel, Short St. 75,000.

N. Y., Coney Island (Brooklyn, P. O.)—Repair Shop—Transit Comn., 49 Lafayette St., New York, having plans prepared rein.-con., brick and steel, plain foundation, Coney Island Yards, here. $500,000. Private plans.

N. Y., Elmira—Plant—International Harvester Co. of America, 656 State St., plans new brick, concrete and steel, adjacent to present plant. $100,000. S. S. Houston, mgr.

N. Y., Fort Edward—Power House—Standard Paper Co. having plans prepared power house and equipment. $100,000. Private plans.

N. Y., Gloversville—Factory—H. Van Driessche Co., 7 Water St., plans brick, concrete and steel, to replace one recently destroyed by fire. $60,000-$75,000. C. G. Frank, mgr.

N. Y., Gloversville—Plant—W. C. Smith Glove Co. plans repairing and building additions. $40,000-$50,000.

N. Y., Syracuse—Plant—Onondaga Litholite Co., 102 North Beech St., plans brick, concrete and steel addition. $125,000-$150,000.

Pa., Morrisville—Plant—Vulcanized Rubber Co., having plans prepared by T. B. Stockham, Stockham Bldg., first unit of several additions, 1 story, 44 x 132 ft. Total cost $100,000.

Pa., Pittsburgh—Laundry—Pearl Laundry Co., 2015-2017 Wyandotte St., plans 3 story, fire proof laundry.

Pa., Pittsburgh—Plant—Yellow Cab Motor Fuel Co., 200 South Hiland Ave., having plans prepared 2 story, brick plant. $100,000. Private plans.

Pa., Tullytown—Plant—C. Warner Co., I. O. O. F. Bldg., Wilmington, Del., plans sand dredging plant, here. $600,000.

Tenn., Crab Orchard—Factory—Southland Portland Cement Co. plans plant. $1,000,000. J. A. Parker, Independent Life Bldg., Nashville, secy.

Tenn., Johnson City—Manufacturing—Chamber of Commerce retained Lockwood, Greene & Co., Piedmont Bldg., Charlotte, N. C., to prepare plans manufacturing building, 50,000 ft. floor space.

Tenn., Leewood—Shops and Roundhouse—Louisville & Nashville R.R., 10th St. and Bway., Louisville, Ky., plans roundhouse and shops, here, will exceed $40,000.

O., Circleville—Generating Plant—Columbus Ry., Power & Light Co., 102 North 3rd St., Columbus, purchased 400 acres in Harrison Twp., plans steam operated electric generating plant on portion of site.

O., Cincinnati—Tank Shop—Davis Welding & Mfg. Co., 10 Richmond St., had plans prepared by Lockwood, Greene & Co., 38 South Dearborn St., Chicago, 1 story, 120 x 223 ft., steel. Noted Feb. 24.

O., Cleveland—Factory—Astrup Co., 2937 West 25th St., having plans prepared by Allen-Osborn Co., 700 Rose Bldg., 2 story and basement, 50 x 97 ft., brick and rein.-con., West 25th St. $40,000.

O., Cleveland—Light Plant—Plans light plant improvements, production system $773,000 to $892,100, transmission system $374,700 to $430,000; distribution system $792,600 to $910,000, add 15 per cent for contingencies and miscellaneous, $286,000 to $334,900, extraordinary repair to present superheaters, etc., $393,000 to $529,000, total $2,620,000 to $3,096,000. C. G. Beckwith, City Hall, engr.

O., Cleveland—Factory—D. Round & Son, Stop 3, A. B. C. Line, had plans prepared by H. W. Mauer, 1991 East 66th St., 1 story, 170 x 210 ft., brick and steel. $75,000.

O., Cleveland—Plant—Federal Packing Co., 3200 West 65th St., having plans prepared by M. P. Burt & Co., Falls Bldg., Memphis, Tenn., 2 story, brick and steel addition, West 65th St. $40,000.

O., Cleveland—Shop—Ohio Machine & Boiler Co., University Rd., had plans prepared by A. G. Simon, 716 Hippodrome Bldg., 1 story, 64 x 100 ft., brick and steel addition. $40,000.

O., Lorain—Substation—Ohio Pub. Serv. Co., c/o L. B. Johnson, Elyria, plans 1 story, brick, steel and concrete, Pearl Ave. and East 36th St., here. $200,000. Private plans.

Ind., Evansville—Factory—National Furniture Co. plans to build portion of factory recently destroyed by fire. $75,000.

Ind., Flat Rock—Power Plant—C. E. Newton, Shelbyville, plans steam power plant at canning plant, here. $40,000.

Mich., Detroit—Factory—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., preparing plans 4 and 5 story, rein.-con. brick, and steel, plain foundation. $200,000. Owners name withheld.

Mich., Detroit—Factory—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., preparing plans 1 story 100 x 140 ft., brick and steel, plain foundation, West End Ave. $50,000. Owner's name withheld.

Mich., Ironwood—See "Buildings."

Ill., Abington—Plant—Amer. Sanitary Mfg. Co. plans 2 story, 92 x 94 ft. addition. $50,000.

Wis., Delton—Mill—H. F. Sarrington plans to rebuild 2 story mill to replace one recently destroyed by fire. $40,000. Engineer and architect not selected.

Wis., Madison—Factory—Orange Crush Bottling Co., c/o W. Jorges, Middleton, having plans prepared by P. M. Homer, Pioneer Blk., 2 story, 40 x 77 ft., rein.-con. and timber, plain foundation, here. $40,000.

Wis., Poplar—Cannery—Lange Canning Co., Mill St., Eau Claire, soon takes bids 3 story, 70 x 176 ft., brick and timber, plain foundation. $60,000. Private plans.

Wis., Sheboygan—Factory—Sheboygan-Brick Co., c/o F. Heerman, 615 Superior Ave., plans 2 story, brick, rein.-con. and steel factory. $40,000. Engineer and architect not selected.

Wis., Waukesha—Factory—Quality Aluminum Casting Co., c/o A. C. Pankratz, mgr., Lincoln Ave., plans 1 story, 50 x 100 ft., brick and steel addition, plain foundation. $50,000. Private plans.

Wis., Wisconsin Rapids—Shop—Nash-Hardware Co., 2nd and Grand Ave., having plans prepared by A. F. Billmeyer, Wisconsin Rapids, 2 story, 86 x 110 ft., sheet metal and repair shops, brick and steel, plain foundation. Noted Mar. 13.

Neb., Omaha—Sub-Station—Nebraska Power Co., c/o J. E. Davidson, genl. mgr., Electric Bldg., plans power substation and transmission lines. $3,000,000. F. S. Stott, 206 Kennedy Bldg., archt. H. A. McKennon, Omaha, engr.

Mo., North Kansas City—Factory—Amer. Can Co. plans 4 story and basement, 113 x 595 ft., rein.-con., and steel 14th and Campbells Sts. Engineer and architect not selected.

Mo., Springfield—Packing Plant—Springfield Packing Co., 741 South Weller St., soon takes bids 2 story and basement, 105 x 156 ft., rein.-con. and brick. $300,000. Heckenlively & Mark, Landers Bldg., archts. Noted July 12.

Tex., Houston—Planing Mill—Massey Mf. Co., Railroad St. and Yale Heights, plans planing mill, along Ship Channel. $75,000.

Tex., Mexia—Factory—Western Agricultural Chemical Co. plans 2 buildings, concrete and brick. $50,000 plus.

Wash., Longview—Plant—Pacific Straw Paper and Board Co., plans first unit of large paper mill on 15-acre tract, along Cowlitz River, here, incl. 50 x 200 ft. mill building, 50 x 100 ft. rotary room, 40 x 80 ft. warehouse and storage room, 20 x 40 ft. fuel building, 20 x 40 ft. engine room and 30 x 40 ft. office.

Wash., Tacoma—Car Shop—Chicago, Milwaukee & St. Paul R.R., Seattle, plans 2 shops, to employ 150 men. Also plans plant for building freight cars, here. R. J. Middleton, Seattle, asst. ch. engr.

Calif., Los Angeles—Packing Plant, etc.—Cudahy Packing Co., 803 Macy St., had plans prepared 3 and 4 story, rein.-con. and brick packing plant and warehouse. $175,000.

Calif., Modesto—Steam Plant—Modesto Irrigation Dist. having plans prepared steam plant, first unit 1,500 kw., $150,000, completed plant $300,000. H. A. Storrs, ch. engr.

Calif., Pomona—Laundry—H. W. Kueline, c/o United Mortgage & Loan Corp., Van Nuys Bldg., Los Angeles, interested in company which plans heavy mill and brick, Monterey St., here. $75,000 or more.

Que., Verdun—Light Plant—City plans to expend $40,000 extending and enlarging electric light plant. H. Hadley, city engr.

Ont., Almonte—Plant—See "Dams."

Ont., Kitchener—Tannery—J. Lang Sons Leather Co. plans new tannery. $200,000.

BIDS DESIRED

R. I., North Smithfield (Woonsocket P. O.)—Plant—Lockwood-Greene & Co., engrs., 24 Federal St., Boston, Mass., taking bids combing plant, incl. combing building, storehouse, boiler plant and pump house, 260,000 sq.ft. floor space, here, for Branch River Wool Combing Co. $1,000,000. Noted Feb. 7.

Industrial Works (Continued)

N. Y., Long Island City—Housing Station—Apr. 14, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rein.-con., brick and steel, plain foundation, Beach 63rd St. and Thursby Ave.

Pa., Phila.—Plant—Apr. 15, by Harris & Richards, Drexel Bldg., 6 story and basement, 105 x 604 ft. rein.-con. and brick, plain foundation for Geneva Electric Co., Witherspoon Bldg., $1,000,000.

Md., Baltimore — Plant — Schluderberg-Kurdle Co., Baltimore and 5th Sts., taking bids and open same about Apr. 18, 7 story, 60 x 225 ft., rein.-con. and brick, plain foundation, Baltimore and 5th Sts. $350,000. B. C. Comstock, 110 West 40th St., New York City, engr. Noted Feb. 28.

La., New Orleans—Roundhouse—Apr. 15, by Public Belt R.R. Comn., Municipal Bldg., rein.-con. and brick roundhouse, Water and Lyon Sts., $200,000.

O., Geneva—Factory—Apr. 15, by Lockwood, Greene & Co., archts. and engrs., Hanna Bldg., Cleveland, 3 story and basement, 50 x 130 ft., brick and rein.-con., here, for Champion Hardware Co. $100,000. Noted Mar. 6.

O., Zanesville — Factory — Apr. 15, by Mosaic Tile Co., 4 story, 80 x 140 ft., steel and concrete addition, Brighton St. $250,000. Noted Mar. 13.

Ind., Indianapolis—Garage and Repair Station—Bd. Pub. Wks., City Hall, taking bids 2 story and basement. $165,000. F. B. Hunter, 912 State Life Bldg., archt. Noted Mar. 20.

Wis., West Bend—Factory—Lockwood, Greene & Co., engrs., 38 South Dearborn St., Chicago, taking bids and opens same about Apr. 14, 2 story, 82 x 130 ft., brick and timber, plain foundation, for Amity Leather Products Co., West Bend. $50,000.

Minn., Duluth — Grinding Plant and Warehouse — Apr. 18, by R. A. Horr, genl. mgr. Stone-Oredean-Wells Co., 201 South 5th Ave. W., 4 story and basement, 85 x 135 ft., fireproof, 49th Ave. W. $165,000. C. W. Kelly, 505 Lonsdale Bldg., archt. and engr.

Tex., Dallas—Assembly Plant—A. Kahn, archt., 100 Marquette Bldg., Detroit, taking bids and opens same about Apr. 15, 1 story, 301 x 830 ft., also 1 story, 63 x 113 ft. oil house, brick, concrete and steel, plain foundation, East Grand Ave., here, for Ford Motor Co., Highland Park, Mich.

Calif., Oakland—Factory—W. J. Miller, archt., 417 Market St., San Francisco, receiving bids six concrete and brick factory buildings, 80th Ave., here, for Illinois Wire & Cable Co., Sycamore, Ill. $40,000 first unit, complete plant $250,000. Noted Mar. 27.

BIDS RECEIVED

N. J., Morris Plains—Boiler Plant—Commissioner Institutions & Agencies, West Hanover St., Trenton, 55 x 77 ft., brick, steel and concrete, at New Jersey State Hospital, here, general contract from C. J. Smith Constr. Co., 202 Academy St., Trenton, $205,000. Noted Mar. 13.

CONTRACTS AWARDED

Mass., Lynn — Plant — General Electric Co., 1 story, 60 x 280 ft., concrete and steel galvanizing building, to Morton C. Tuttle Co., 862 Park Sq. Bldg., Boston.

Mass., Springfield—Factory—Smith Carriage Co., 2 Park St., 4 story and basement, 100 x 160 ft., brick and steel, Park St., to E. F. Carlson, 244 Main St. Archts. est. $100,000.

R. I., Providence—Factory—S. P. Harris Co., 97 Dyer St., 2 story and basement, 52 x 140 ft., rein.-con., brick and steel, Public St., to O. D. Purington Co., 605 Indian Trust Bldg., $56,000. Archts. est. $58,000. Noted Mar. 27.

Conn., Waterbury—Factory—Waterbury Box Co., Leonard St., 1 story, 25 x 50 ft. addition, also raising present factory and building lower story, 82 x 187 ft., brick, to Clark Constr. Co., 168 Grand St. Archts. est. $75,000.

N. Y., Lowville—Cold Storage—Lowville Cold Storage Co., Shady Ave., 3 story and basement steel and brick veneer addition, to Utica Steam Engine & Boiler Wks., 800 Whitesboro St., Utica, and W. H. Rich & Sons, $100,000. Total cost $160,000.

N. Y., Oswego—Plant—New York Central R.R. Co., Grand Central Terminal, New York City, 25 x 50 x 50 ft., brick, concrete and steel locomotive washout plant, here, to William Ballard Co., City Bank Bldg., Syracuse, $75,000.

N. Y., Waverly—Mill—Waverly Factory Corp., 1 story, 60 x 800 ft., brick, concrete and steel, to Lowman Constr. Co., 312 Railroad Ave., Elmira, $100,000.

Pa., Sharon—Plant—Westinghouse Electric & Mfg. Co., East Pittsburgh, two 1 story steel frame shop buildings, 126 x 1,025 ft. and 92.5 x 664 ft., one 4 story, 90 x 355 ft. concrete factory building, also additions to power house, tracks, viaduct, yard drainage and service lines, etc., to Stone & Webster Inc., 147 Milk St., Boston, Mass. Noted Mar. 13.

Tenn., Dickson—Factory—Dickson Development Co., 2 story and basement, 60 x 130 ft., brick to Cowan Lumber Co., Dickson. Archts. est. $40,000. American Cigar Co., lessee. Noted Jan. 31.

O., Cleveland—Plant—Scripps Publishing Co., 1420 East 9th St., substructure for 3 story (ultimately 10 story) 53 x 163 ft., brick and rein.-con. Rockwell Ave., to N. F. Blair Constr. Co., Penton Bldg. Archts. total est. $200,000. Noted Mar. 20.

O., Toledo—Plant—Libbey-Owens Sheet Glass Co., Nicholas Bldg., 1 story (27 bays, 24 x 136 ft. each), brick, steel and concrete, to A. Bentley & Sons Co., 201 Belmont Ave. Archts. est. $1,000,000. Noted Mar. 13.

Ind., Indianapolis — Plant — Real Silk Hosiery Mills, 624 North Noble St., 2 story (ultimately 4 story), to Lockwood, Greene & Co., 38 South Dearborn St., Chicago.

Mich., Detroit—Factory—A. Kahn, archt., 1000 Marquette Bldg., 5 story and basement, 87 x 100 ft. rein.-con. and brick, plain foundation, Grandy Ave., to W. E. Wood Co., 1805 Ford Bldg., for Mazer Cigar Co., 5041 Grandy Ave. $100,000. Noted Mar. 20.

Wis., Hartland — Factory — West Mfg. Co., 90 2nd St., Milwaukee, will build 2 story, 50 x 90 ft., brick and concrete, plain foundation, by day labor, here. $40,000, W. G. Memmler, 228 3rd St., Milwaukee, archt.

Wis., Milwaukee—Machine Shop—Sterling Tool & Mfg. Co., 495 Bway., 1 story, 42 x 120 ft., brick and timber, plain foundation, 30th St., to Byrne Bros., 3112 Burleigh St., $40,000.

Wis., Sheboygan—Factory—Garton Toy Co., North Water St. and Niagara Ave., 4 story, 60 x 90 ft., brick and rein.-con., plain foundation, to Van Daeselaar Co., 1712 North 2nd St. Archts. est. $50,000.

Wis., Racine — Tannery — E. Eisendrath Tanning Co., West 6th St., 3 story, 40 x 90 ft., brick and timber addition, plain foundation, West 6th St., to Nelson & Co., Janes Blk. Archts. est. $50,000. Noted Feb. 28.

Wis., Sheboygan—Foundry—Jenkins Machine Co., 315 North 8th St., 1 story, 40 x 90 ft., rein.-con., brick and steel, plain foundation, to J. Van Daeselaar Co., 1712 North 2nd St., $40,000. Noted Feb. 7.

Minn., Hibbing — Plant — City Water, Light, Power & Building Comn., additions and alterations to power plant, incl. new stoker, to A. C. Schirmer Co., Hibbing, $47,077; extension to underground heating mains, 800 ft., to C. A. Waltz, Hibbing, $6,122; couplings to Johnson-Stewart, Hibbing, $5,000.

Minn., Minneapolis — Barn — Franklin Co-operative Creamery Assn., 2108 Washington Ave. N., foundation for 2½ story, 94 x 155 ft., rein.-con. and brick, 2541-51 23rd Ave. S., to Union Constr. Co., 310 2nd Ave. S., $15,000. Total $60,000. Noted Oct. 4.

Mo., Kansas City—Sub-Station—Kansas City Power & Light Co., 1330 Grand Ave., 1 story and basement, 61 x 107 ft., rein.-con., brick and stone, 6th and Penn Sts., to Fogel Constr. Co., 619 Reliance Bldg. Archts. est. $40,000. Noted Mar. 6.

Mo., St. Louis—Plant—Mechanics Iron Wks., 901 South Ewing Ave., will build 1 and 2 story, 98 x 180 ft., rein.-con. and corrugated iron, Edmund St., by day labor. $40,000. Private plans.

Calif., Huntington Beach — Factory — Western Cooperage Co., 1919 Bay St., Los Angeles 140 x 218 ft. barrel and stave house, 90 x 150 ft. factory, 25 x 40 ft. boiler house, brick and steel, here, to Austin Co. of California, Bartlett Bldg., Los Angeles, $55,000.

Calif., Monrovia—Factory—Colby Management Corp., Pacific Electric Bldg., Los Angeles, foundry, machine shops and assembling plant, each 100 x 300 ft., steel frame and concrete, here, to Union Iron Wks., 5125 Santa Fe Ave., Los Angeles.

Calif., Oakland—Factory—Fageol Motors Co., Hollywood and 107th Aves., 1 story, brick and concrete, to E. T. Leiter & Son, Call Bldg., San Francisco, $42,000.

Calif., Oakland—Substation—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, will build 2 story, concrete, 51st St. and Shattuck Ave., here, by day labor. $55,000.

Calif., San Francisco — Factory — John Center Co., Balboa Bldg., 1 story, rein.-con., Hampshire St., to C. W. Gompertz, 180 Jessie St., $45,250. Noted Apr. 10.

Buildings

PROPOSED WORK

Mass., Boston—Exchange—New England Telephone and Telegraph Co., Oliver St., plans brick and steel, Harrison Ave. $1,000,000.

Mass., Boston—Storage—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, Pa., having plans prepared by French & Hubbard, archts. and engrs., 210 South St., Boston, 6 story, 80 x 200 ft., brick and steel, plain foundation, C St., here. $150,000.

Mass., Franklin—High School—School Com. having plans prepared by Ritchie Parsons & Taylor, 15 Ashburton Pl., Boston, 2 story, brick and steel. $255,000-$280,000. Noted Mar. 15.

Mass., Holyoke — Church — Holy Cross Church, J. C. Ivers, pastor, plans new church, Dwight St., $300,000. Present church will be remodeled for parochial school.

Mass., New Bedford—Exchange—New England Telephone and Telegraph Co., Oliver St., Boston, plans exchange, brick and steel, here. $150,000.

Conn., Stamford — Apartment — Owner, c/o Margon & Glaser, archts., 2804 3rd Ave., New York City, having plans prepared 4 story and basement, 140 x 166 ft., brick and steel, South St., here. $250,000.

Conn., Wallingford — Chapel — Choate School, North Elm St., had plans prepared by R. A. Cram, 33 West 42nd St., New York City, 1 story, brick and stone. $150,000. Noted Jan. 10.

N. Y., Buffalo—High School—Bd. Educ., Telephone Bldg., having preliminary plans prepared by Kidd & Kidd, 524 Franklin St., rein.-con., brick and stone, Fillmore Ave. To exceed $600,000.

N. Y., Buffalo—School—Bd. Educ., Telephone Bldg., having preliminary plans prepared by F. A. Spangenberg, 250 Delaware Bldg., Vocational School, rein.-con. and brick. To exceed $400,000. Noted Apr. 3.

N. Y., Buffalo — School — St. Nicholas Parish plans 3 story and basement addition, Verplanck St. $150,000. J. F. McGloin, 18 Walker St., pastor.

N. Y., Dansville—Lodge—Building Com. Phoenix Lodge of Masons plans marble, brick, concrete and steel, Main St. $175,000-$200,000.

N. Y., Le Roy—School—Bd. Educ. soon takes bids new school. $255,000 bonds voted. H. B. Ward, mayor.

N. Y., Ogdensburg — Schools — Voted $350,000 bonds school building program. J. C. Howard, chn. Building Comn. Bd. Educ. Noted Feb. 28.

N. Y., Penn Yan—School—Election Apr. 29, $162,000 bonds to purchase site for new school, Liberty St. A. T. Beardslee, village pres. Engineer and architect not selected.

N. Y., Rochester—Office—Rochester Gas & Electric Corp., 34 Clinton Ave. N., plans office building. $1,000,000. Gordon & Kaelber, Sibley Bldg., Rochester, and McKim, Mead & White, 101 Park Ave., New York City, archts.

N. Y., Rochester — Hospital — Rochester Homeopatic Hospital, 224 Alexander St., soon takes bids brick, steel and stone addition. $350,000. H. G. Balcom, 10 East 47th St., New York City, engr. York & Sawyer, 100 East 42nd St., New York City, archts. Noted Nov. 1.

N. Y., Rome—High School—Bd. Educ. plans new high school, Linden and Turin Sts. $295,000-$300,000. F. W. Marks, pres.

N. Y., Watertown — High School — Bd. Educ. plans North Side high school. $350,000-$400,000. F. S. Tisdale, supt.

N. J., Asbury Park—Convention Hall—City having preliminary plans prepared by Warren & Wetmore, 16 East 47th St., New York City, convention hall. $750,000.

N. J., Newark — Warehouse — L. Bamberger & Co., Market St., rejected bids 5 story, rein.-con. and steel, plain foundation, Plain St. $1,000,000. Plans will be revised. A. Merkt & Co., 175 5th Ave., New York City, archts. and engrs. Noted Mar. 20.

N. J., Plainfield—School—Bd. Educ. having plans prepared by J. T. Rowland, Jr., archt. and engr., 100 Sip Ave., Jersey City, brick, steel and stone, plain foundation, Woodland Ave. $200,000.

N. J., Trenton—Store—Goldbergs Dept. Store, Front and Broad Sts., had plans prepared by W. W. Slack & Son, 146 East State St., and L. S. Kaplan, 1st Natl. Bank, Buildings (Continued)

4 story, 51 x 90 ft., brick and steel addition, East State St. $150,000.

Pa., Camp Hill—Clubhouse—Manufacturers Club, Broad and Walnut Sts., Phila., having revised plans prepared by Seeburger & Rubenold, Weightman Bldg., Phila., and soon takes new bids, 2½ story, 60 x 130 ft., Broad and Walnut St. Noted Mar. 6.

Pa., New Castle — Church — St. Marys Roman Catholic Congregation, Beaver St., having plans prepared by J. P. Brenot, Transit Bldg., Oil City, 1 story and basement, 65 x 150 ft. stone. $150,000.

Pa., Phila. — Apartment — Rose Constr. Co., North Amer. Bldg., having plans prepared by Ballinger & Co., 12th and Chestnut Sts., 15 story and basement, 63 x 173 ft. brick and steel, 21st and Walnut Sts. $2,250,000.

Md., Baltimore—Club—Maryland Country Club, F. C. Schanberger, pres. c/o G. R. Callis, Jr., archt., Hearst Tower, having plans prepared 3 story, brick, plain foundation, Park Heights and Strathmore Ave. $150,000.

W. Va., Clarksburg—Church—Church of Immaculate Conception rejected bids for church. Will readvertise. $250,000. E. J. Weber, Knights of Columbus Bldg., Pittsburgh, Pa., archt. Noted Feb. 28.

W. Va., Huntington—Store and Club—McMahon-Diehl Co., 1017 3rd Ave., plans 4 story, rein.-con. and brick, 10th St. and 3rd Ave. $150,000.

W. Va., Martinsburg — Apartment — M. Cox, 606 West King St., plans 6 story, 65 x 156 ft., West King St. $200,000.

N. C., Charlotte—Schools—City election May 6. $1,000,000 bonds, new schools. Noted Nov. 8.

Ala., Huntsville — Hospital — City plans hospital. Committees appointed by Chamber Commerce raising $300,000 for same.

La., New Orleans — School — Orleans Parish School Bd., City Hall, having plans prepared by E. A. Christy, city archt., City Hall, 3 story and basement, 30 room, brick, Esplanade and White Sts. $250,000. Will let contracts about May 1.

Tenn., Memphis—Terminal—Illinois Central R.R., 135 East 11th Pl., Chicago, plans mail terminal, here. $250,000. F. L. Thompson, ch. engr.

Tenn., Nashville—School—Fisk University, 17th Ave. N., plans additions. $1,000,000.

Ky., Bowling Green—Station—Louisville & Nashville R.R., 10th St. and Bway., Louisville, takes bids about July 15, station, here. $300,000. W. H. Courtnay, ch. engr. Noted May 31.

O., Cleveland — Apartments — M. B. Abrams, Society for Savings Bldg., plans ten 3 story, brick, East 106th St. and St. Clair Ave. $1,500,000. Private plans.

O., Cleveland—Engineering—White Co., 842 East 79th St., having plans prepared by Watson Co., 4614 Prospect Ave., 2 story, 150 x 160 ft., brick, steel and concrete, 825 East 79th St. $200,000.

O., Cleveland — Restaurant and Commercial—Colonnade Co., 802 Bulkley Bldg., having plans prepared by Howell & Thomas, 4500 Euclid Ave., 2 or 3 story, 69 x 180 ft., brick and steel, Euclid Ave. and East 107th St. $175,000.

O., Columbus—Theatre and Office—Keith Theatrical Enterprises, 1564 Bway., New York City, soon takes bids brick, steel and stone, plain foundation, Broad St., here. $1,000,000. T. W. Lamb, 644 8th Ave., New York City, archt.

O., Dayton—Store and Apartment—Huffman Realty Co., 305 Callahan Bank Bldg., plans four 2 story and basements, 145 x 425 ft., rein.-con. and brick, plain foundations, Ludlow St. $500,000. Private plans.

Mich., Ironwood—Church—St. Ambrose Congregation having plans prepared by E. Brielmaier & Sons, 432 Bway., Milwaukee, Wis., 2 story, brick and stone, plain foundation, also 40 x 50 ft. brick power plant. $150,000.

Ill., Joliet—Sanitarium—Comrs. Will Co., c/o B. D. Jones, chn., Manhattan, soon takes bids 2 story, brick and concrete, Richard Rd., here. $150,000.

Ill., Waukegan—Office—J. A. Miller, 206 Washington St., having preliminary plans prepared 5 story and basement, 125 x 132 ft., rein.-con., brick and steel. $175,000. Private plans.

Ill., Rogers Park (Chicago P. O.)—High School—St. Scholastica Academy, 7430 Ridge Blvd., having plans prepared by E. Brielmaier & Sons, 432 Bway., Milwaukee, Wis., 3 story and basement, brick and concrete, plain foundation, Ridge Blvd. $450,000.

Wis., Green Bay—Office and Store—H. Herrick, 200 North Washington St., rejected bids 7 story and basement, 46 x 65 ft., brick, plain foundation, Cherry St. New bids later. $150,000. Oppenhamer & Obel, Nicollet Bldg., archts. Noted Mar. 27.

Wis., Jefferson—High and Grade School—School Bd., R. K. Henry, clk., plans to rebuild 2 story and basement, brick, tile and concrete, plain foundation, West Side. $200,000. Engineer and architect not selected.

Wis., Kenosha—High School—School Bd. E. F. Powers, secy., had plans prepared by J. D. Chubb, 109 North Dearborn St., Chicago, 3 story and basement, 248 x 250 ft., brick, tile and concrete, plain foundation. $1,000,000.

Wis., Milwaukee—Apartment, etc.—Mal Investment Co., 376 East Water St., having plans prepared by Leenhouts & Guthrie, 424 Jefferson St., 2 and 4 story, apartment, store and garage, brick and concrete, plain foundation, 27th and Wells Sts. $350,000.

Wis., Milwaukee—Grade School—School Bd. having plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., 3 story and basement, brick, tile and concrete, plain foundation, Locust and 51st Sts. $400,000.

Wis., Oshkosh — Church — Sacred Heart Congregation, M. Schmitz, 1318 6th St., having preliminary plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, 2 story, brick and stone, plain foundation, Knapp St. $175,000.

Minn., Minneapolis—School—Bd. Educ., 305 City Hall, plans 3 story and basement, rein.-con., brick and tile, Lynhurst Dist. $650,000. Bureau of Buildings, Bd. Educ., archts.

Minn., St. Paul — School — Dept. Educ., City Hall, rejected bids opened Mar. 25, 3 story and basement, 120 x 160 ft., Albert St. and Pascal Ave. $300,000. Noted Apr. 3.

Minn., St. Paul — School — Dept. Educ., rejected bids opened Mar. 18, 2 story and basement, rein.-con., brick and tile, North St. Anthony Park. L. R. S. Ferguson, City Hall, comr. Noted Mar. 27.

Kan., Great Bend—High School—Election Apr. 8, $212,000 bonds, 2 story and basement, 114 x 116 ft., rein.-con. and brick. T. W. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, archts. Noted Mar. 31.

Mo., Joplin — Apartment — H. R. Valfer plans 3 story and basement, rein.-con., brick and stone, plain foundation, 2nd and Byers Sts. $150,000. Private plans.

Mo., St. Louis—Garage—G. Seeley, c/o Bottorff-Giles Co., 4914 Delmar Bldg., soon takes bids 4 story and basement, 100 x 152 ft., rein.-con., brick and stone, Walnut St. $300,000. Private plans.

Mo., St. Louis—Hotel Apartment—Edward Realty & Investment Co., International Life Bldg., soon takes bids 8 story and basement, 100 x 177 ft., rein.-con., brick, stone and terra cotta, Enright and Hamilton Sts. $700,000. Engineers and architects names withheld.

Ark., Hot Springs—Hospital—St. Josephs Infirmary, Mother Bernard of Sisters of Mercy, plans rein.-con., brick and terra cotta addition, 100 beds. $200,000. Architect not selected.

Tex., Ft. Worth—Church, etc.—Baptist Seminary, Seminary Hill, plans new church, $175,000, administration building $500,000, both brick and concrete. L. E. Scarborough, pres. Engineer and architect not announced.

Tex., Ft. Worth—Club and Office—Ft. Worth Club, A. G. Carter, 6th and Main Sts., having plans prepared by Sanguinet, Staats & Hedrick, 1st Natl. Bank, 8 or 11 story and basement, 100 x 200 ft., concrete, steel and brick, 7th and Throckmorten Sts. $1,500,000.

Tex., Ft. Worth—Garage—W. L. George, 2316 5th Ave., having plans prepared by W. G. Clarkson, 1st Natl. Bank Bldg., 2 story, 100 x 100 ft., 1st and Taylor Sts. $150,000.

Tex., Fort Worth—Store—J. I. Burgess, Jarvis Heights, having plans prepared by W. G. Clarkson & Co., 607 1st Natl. Bank Bldg., 6 story (ultimately 9 story) and basement, 95 x 100 ft., rein.-con., brick and stone, 5th and Houston Sts. $300,000. Sanger Bros., Elm, Main, Lamar and Austin Sts., Dallas lessee. Noted Mar. 13.

Tex., Medina Lake—Hotel—Lake Medina Lodge & Country Club, 411 Gunter Bldg., San Antonio, having plans prepared by Seutter & Simons, Moore Bldg., San Antonio, 3 story, 90 x 180 ft., rein.-con. and stone, plain foundation. $175,000.

Okla., Enid—Y. M. C. A. plans 4 story, rein.-con. and brick. $250,000. W. M. Lee, chn. building commission. Architect not selected.

Okla., Lawton—Convention Hall—City preparing plans 3 story and basement, 100 x 150 ft., brick, plain foundation, 4th St. $150,000. W. V. Mountain, Lawton, engr. Architect not selected.

Okla., Okmulgee—Club—Local Lodge of Elks, 6th St. and Muskogee Ave., soon takes bids 4 story, 50 x 140 ft., rein.-con., brick and stone. $180,000. Smith & Senter, 401 Commerce Bldg., Okmulgee, archts.

Okla., Wewoka—Court House—Seminole Co. takes bids about May 1, 2 story and basement, 90 x 150 ft., rein.-con., plain foundation. $150,000. Monnott & Reid, Empire Bldg., Oklahoma City, archts.

Ore., Eugene — Office — F. M. White, archt., Sherlock Bldg., Portland, preparing plans and takes bids about May 6, 6 story (ultimately 8 story), 60 x 160 ft., rein.-con. and timber, plain foundation, 9th Ave. between Oak and Pearl Sts., here, for W. Minor, 1884 Alder St., Eugene. $175,000.

Ore., Eugene—School—Bd. Educ. takes bids about May 26, 2 story, 61 x 267 ft., and 2 story, 168 x 170 ft., rein.-con. and timber, plain foundation. $250,000. F. M. White, Sherlock Bldg., Portland, archt.

Ore., Portland—Apartment and Store—Leadbetter Estate, c/o F. W. Leadbetter, 795 Park St., plans 6 story, 80 x 180 x 480 x 500 ft., Washington, Morrison, 19th and 20th Sts. $450,000-$500,000.

Calif., Bakersfield — Hotel — California Real Estate & Finance Corp., Securities Bldg., Los Angeles, plans 4 story, probably brick, V and 19th Sts., here. $300,000.

Calif., Fresno—Store, Club and Lodge—B. P. O. E. Lodge 439, plans fireproof. $150,000 or more.

Calif., Lemoore—School, Gymnasium and Shops—Lemoore Union High School Dist. having working plans made by W. H. Weeks, 369 Pine St., San Francisco, rein.-con. $150,000.

Calif., Los Angeles—Church—Christian Church, c/o R. H. Orr, archt., Corporation Bldg., having working plans prepared 3 story, basement and sub-basement, masonry, Wilshire Blvd. To exceed $250,000.

Calif., Los Angeles — Garage — P. S. Wright Co., 3981 West 6th St., plans 8 story, rein.-con., Westlake section. $150,000 or more.

Calif., Los Angeles—Schools—Los Angeles School Dist. having plans prepared by Architectural Dept. Bd. Educ., for McKinley Industrial Home School, 8 classrooms, also 9th St. School, 12 rooms, both brick. To exceed $150,000.

Calif., Los Angeles—Theatre and Loft—J. Toplitsky, H. W. Hellman Bldg., representing owners, having preliminary plans prepared by G. A. Lansburgh, Junior Orpheum Bldg., 12 story, 138 x 148 ft. steel and rein.-con., South Bway. $1,000,000. Junior Orpheum Circuit, Junior Orpheum Bldg., lessee.

Calif., Los Angeles—Theatre and Loft—Bway. Properties Co. having plans prepared by G. A. Landsburgh, Junior Orpheum Bldg., 13 story, 138 x 148 ft., rein.-con., 838 South Bway. $1,000,000.

Calif., Los Angeles — Warehouse — A. Wohlfarth, c/o A. C. Martin, archt., Higgins Bldg., having plans prepared 8 story and basement, 50 x 150 ft., rein.-con., Pico St.

Calif., Oakland — Courthouse — Alameda Co., election May 6, $4,500,000 bonds, $1,500,000 for site, balance for building. G. E. Gross, clk. Bd. Supervs. Engineer and architect not selected. Noted Jan. 4.

Calif., Oakland—Hospital—Alameda Co. election May 6, $2,000,000 bonds, completing Highlands Hospital. G. E. Gross, clk. Bd. Supervs. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Oceanpark (Santa Monica, P. O.)—Theatre—Raymond Amusement Co., c/o A. F. Priest, archt., Fay Bldg., Los Angeles, having plans prepared rein.-con. $200,000.

Calif., Sacramento—Store—Eastern Outfitting Co., 1017 Market St., plans fireproof, J St. $150,000 or more. Engineer and architect not selected.

Calif., San Diego — Auditorium — City having plans prepared by L. Rogers and E. W. Stevenson, 533 Spreckels Bldg., concrete and steel auditorium, for San Diego High School, 2,500 seating capacity. $300,000.

Calif., San Diego—Office—Syndicate of physicians having plans prepared by L. Rogers and F. W. Stevenson, 533 Spreckels Bldg., 10 story, 100 x 100 ft., rein.-con. and steel, 4th and Beach Sts. $500,000.

Calif., San Francisco—Apartment—O. E. Anderson, 483 15th Ave., having plans prepared by Baumann & Jose, 251 Kearny St., 6 story and basement, rein.-con., Jones St near Geary St. $175,000.

Buildings (Continued)

Calif., San Francisco—School—Boys Aid Society, c/o Meyer & Johnson, archts., 742 Market St., having plans prepared fireproof group school buildings. To exceed $150,000.

Calif., San Francisco—Hotel, Theatre and Store—Kutner Interests, Claus Spreckels Bldg., plan 17 story and basement, fireproof, Market, Larkin, Hayes and Fell Sts. From $4,000,000 to $5,000,000. Engineer and architect not announced.

Calif., Stockton — Auditorium — A. L. Banks, city clk., takes bids about Apr. 16, 400 to 500 tons structural steel for auditorium. Total cost $450,000. Noted Nov. 15.

Calif., Sunnyvale—High School—Westside Union High School Dist. plans to vote on $150,000 or more bonds for fireproof high school.

Calif., Torrance—Office—City plans to vote on $150,000 bonds for office building. A. H. Bartlett, city clk.

Que., Montreal—College—St. Marys College, Bleury St., plans campaign to raise $2,000,000 for new college on St. Catherine Rd.

Ont., St. Catharines—Hospital—G. and M. Hospital having plans prepared by Nicholas & MacBeth, St. Catharines, 3 story and basement, rein.-con., brick and steel, plain foundation. $325,000.

Ont., Smiths Falls — Church — Westminster Presbyterian Church having plans prepared by Gordon & Helliwell, Confederation Life Bldg., Toronto, 1 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Ont., Ottawa—Seminary—Roman Catholic Episcopal Corp., St. Patrick St., having plans prepared seminary, King Edward Ave. $500,000. Private plans.

BIDS DESIRED

Conn., Norwalk—Theatre—J. Tracy Co. will build by separate contracts 2 story and basement, 75 x 152 ft., brick and steel, Main St., under supervision of A. S. Meloy, archt., Stratford. Cost plus basis. $180,000-$200,000.

Conn., Stratford—High School—Apr. 16, at office of School Com., Town Hall, high school. F. I. Cooper Corp., 983 Main St., Hartford, archts. Noted Nov. 8.

N. Y., Amsterdam — Community Hall — E. W. Loth, archt., 253 Bway., Troy, taking bids new community hall, here, for St. Stanislaus Church Parish. To exceed $150,000.

N. Y., Buffalo—School—Apr. 23, by Bd. Educ., Telephone Bldg., P. S. 31, 3 story and basement, 160 x 200 ft., rein.-con., brick and stone, Lovejoy St. To exceed $400,000. Associated Buffalo Architects, 232 Delaware Ave., archts.

N. Y., Central Islip—Cottages—Apr. 23, by State Hospital Comn., Albany, Cottages 4-7 inclusive for Senior Assistant Physicians, at State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. Apr. 10.

N. Y., Le Roy—School—Apr. 22 (extended date), by Bd. Educ., 2 story and basement, 43 x 59 x 63 x 167 ft., brick and steel, plain foundation. Tooker & Marsh, 101 Park Ave., New York City, archts. Noted Mar. 27.

N. J., Bridgeton—Hospital, etc.—Apr. 14, by Stearns & Woodnut, archts., Stephen Girard Bldg., Phila., 3 story and basement, 40 x 140 ft. hospital and 42 x 90 ft. power house, brick and steel, plain foundation, Irving St., here, for Bridgeton Hospital Assn. $150,000. Noted Dec. 20.

N. J., Cedargrove—Hospital—May 1, by G. C. Bergen, purch. agt. Essex Co., Court House, Newark, reception hospital, and its tunnels, corridors, etc., designated as Group 1, here. F. S. Sutton, 402 Broad St., Newark, archt. Runyon & Carey, 845 Broad St., Newark, engrs. Noted Jan. 24.

N. J., Orange—High School—Apr. 19, by Bd. Educ., Main and Cleveland Sts., new high school. E. Sibley, Edgewood Lane and Bluff Rd., Palisade, archt. Noted Oct. 4.

N. J., Trenton—School—Apr. 14, by Hamilton Twp. Bd. Educ., 1770 Nottingham Way, 2 story and basement, 87 x 132 ft., for Kuser School. $150,000. W. A. Klemann, 1st Natl. Bank, engr.

Pa., Camp Hill—Clubhouse—Apr. 14, by Seeburger & Rabenold, archts., Weightman Bldg., Phila., 2½ story and basement, 60 x 130 ft. stone and frame, plain foundation, for Manufacturers Club, Broad and Walnut Sts. $150,000. Noted Mar. 6.

Pa., Elizabethtown—Home—Apr. 18, by E. A. Wightman, archt., Heed Bldg., Phila., 3½ story and basement, 65 x 110 ft. rein.-con., steel and tile, plain foundation, for Masonic Home Assn., Elizabethtown. $250,000. Noted Mar. 6.

Pa., Forty Fort—High School—Apr. 14, by School Dist., 2 story and basement, 125 x 234 ft. brick and steel, plain foundation, $300,000. R. Herr, Simon Long Bldg., Wilkes Barre, archt.

Pa., Hazelton—Exchange—Apr. 15, by J. T. Windrim, archt., Commonwealth Bldg., Phila., 2 story and basement, 80 x 150 ft., brick, plain foundation, here, for Bell Telephone Co., 17th St. and Parkway, Phila.

Md., Baltimore—Store—Apr. 25, by Smith & May, archts., Calvert Bldg., 9 story and basement, 122 x 156 ft., brick and steel, plain foundation, Lexington and Howard Sts., for Bernheimer Leader Stores, Lexington and Howard Sts. $750,000. Noted Aug. 30.

Ohio—Schools—Apr. 29, by Bd. Educ. Harrison Twp. School Dist., R.R. 1, Dayton, 2 story, brick and concrete at Ft. McKinley, and 1 story brick addition to school at Forest Park. $200,000. W. M. McCluer, 401 Canby Bldg., Dayton, archt. Noted Nov. 15.

O., Akron—Municipal—Apr. 18, by city, 9 story and basement, 95 x 110 ft., brick and steel, Church and High Sts. $900,000. Good & Wagner, 209½ Water St., archts. A. G. Simon, 716 Hippodrome Bldg., Cleveland, engr. Noted Jan. 24.

O., Springfield—Temple—Apr. 25, by Bd. Trustees Masonic Temple Assn., 5 story and basement, 100 x 150 ft., stone, brick and concrete, 4,500 seating capacity. $600,000. Miller & Reeves and H. D. Smith, 20 South 3rd St., Columbus, archts. Noted May 3.

Mich., Detroit—Bank—A. Kahn, archt., 1000 Marquette Bldg., taking bids 5 story and basement, 65 x 74 ft., rein.-con., brick and steel, plain foundation, Griswold St., for First State Bank, Griswold and Lafayette Aves. $400,000. Noted Feb. 28.

Mich., Detroit—Clubhouse—Stratton & Snyder, archts., 1103 Union Trust Bldg., taking bids and opens same about Apr. 15, 2 story and part basement, 50 x 250 ft. rein.-con., brick and tile, plain foundation, Vernier Rd., here, for Lochmoor Club, 203 Lakeshore Dr., Grosse Pointe Shores. $200,000.

Mich., Detroit—Hotel—L. Kamper, archt., Kamper Bldg., Cass Ave., taking bids and opens same about Apr. 15, 10 story and basement, 60 x 100 ft. rein.-con., brick and steel, plain foundation, Park Blvd., for L. W. Tuller, Tuller Hotel.

Mich., Detroit — Mercantile — Weston & Ellington, archts., 1507 Stroh Bldg., taking bids and opens same about Apr. 21, 12 story and basement, 95 x 137 ft. rein.-con., brick and steel, plain foundation, John R St., for Central Detroit Realty Co., c/o archts.

Mich., Detroit—School—Apr. 14, by Bd. Educ., 2 story and basement, 83 x 163 ft., rein.-con., brick and steel, plain foundation, Courtland Blvd. and Broad St. $160,000. Malcomson & Higginbotham, 1217 Griswold St., archts.

Mich., Monroe—School—Apr. 18, by C. Kiburtz, secy. Bd. Educ., 2 story and basement, 9 room, rein.-con., brick and steel addition, plain foundation, Lincoln School site. $150,000. Warren Holmes-Power Co., Lansing, archts.

Ill., Anna—High School—Apr. 15, by G. R. Corlis, secy. Bd. Educ., 2 story and basement, 85 x 130 ft. $175,000. J. A. Scribbins, 22 West Monroe St., Chicago, archt.

Ill., Edwardsville—Hospital—C. H. Dorris, Collinsville, secy. Madison County Tuberculosis Sanitarium, taking bids and opens same about May 1, 2 and 3 story, rein.-con., brick and stone. $250,000. Private plans. Noted July 5.

Wis., Kohler — Clubhouse — Kohler Co. taking bids 2 story and basement, brick and concrete addition, plain foundation. $150,000. Brust & Philipp, 405 Bway., Milwaukee, archts.

Wis., Milwaukee — Apartment — S. N. Loftus, 3220 Grand Ave., taking bids 3 story, brick and tile, plain foundation, Grand Ave. $150,000. Private plans.

Wis., Milwaukee—Business—M. Tullgren & Sons, archts., 415 East Water St., taking bids 3 story and basement, 62 x 120 ft., brick and concrete, plain foundation, North Ave., for Persion Furniture Co., 385 3rd St. $150,000.

Wis., North Milwaukee—High School—Apr. 15, by Joint School Dist. 1, E. Neumann, clk., 2 story and basement, brick and tile, plain foundation, Custer Ave. $150,000. Van Ryn & De Gelleke, 114 Grand Ave., Milwaukee, archts.

Mo., Hannibal—Schools—Apr. 18, by E. E. Mangels, clk. Hannibal School Dist., Hannibal Trust Bldg., remodeling and additions to Douglass and South Grade Schools. $150,000. Beuttler & Arnold, 405 Grain Exch., Sioux City, Ia., archts.

Mo., St. Louis—Hotel—P. J. Bradshaw, archt., International Life Bldg., taking bids 17 story and basement, rein.-con., steel, brick and terra cotta, 8th and St. Charles Sts., for Mayfair Investment Co., 312 North 8th St. Noted Mar. 20.

Tex., Austin — Office — W. T. Caswell, Littlefield Bldg., taking bids 13 story, basement and subbasement, brick, steel and concrete, West 7th and Colorado Sts. $1,000,000. Sanguinet Staats & Hedrick, 1st Natl. Bank, Ft. Worth, archts.

Tex., Houston—Bank and Office—Houston Land & Trust Co., 119 Main St., taking bids remodeling present building, 3 new stories, concrete and brick. $200,000. Sanguinet Staats & Hedrick, 1st Natl. Bank, Ft. Worth, engrs.

Okla., Muskogee—Hospital—Apr. 19, by Soldiers Relief Comn., 2 story and basement, 80 x 150 ft., rein.-con. and brick, plain foundation, near here. $150,000. Noted Mar. 6.

Okla., Norman—Medical and Engineering—Apr. 15, by C. Rice, chn. State Bd. Affairs, Capitol Bldg., Oklahoma City, 100 x 160 ft., rein.-con. and brick, plain foundation, on Campus State University, here. $200,000. Layton, Smith & Forsythe, 906 Baniff Bldg., Oklahoma City, engrs.

Calif., Grass Valley—Hotel—E. Sharpe, archt., 60 Sansome St., taking bids 6 story, rein.-con., Main and North Sts., for Golden Capitol Hotel Co., 125 Mason St. $200,000.

Calif., Los Angeles—Store and Office—Curlett & Beelman, archts., Union Bank Bldg., taking bids, steel for 12 story and basement, 100 x 150 ft., Flower and 7th Sts., for Sun Realty Co., 1116 Los Angeles St. Noted Mar. 13.

Calif., San Jose—Club and Office—Binder & Curtis, archts., 255½ South 1st St., taking bids and open same about Apr. 16, 10 story, Class A, steel and concrete, North 1st St., for Commercial Club, c/o architects. To exceed $150,000.

Calif., Santa Clara — School — Roman Catholic Archbishop, 1100 Franklin St., San Francisco, will build 2 story, rein.-con., here, under supervision of H. C. Miller, constr. mgr., c/o St. Clare School. $150,000. Noted Sept. 20.

N. B., St. John—Hotel—Apr. 23, by Admiral Beatty Hotels Ltd., St. John, 8 story, 110 x 160 ft. rein.-con., brick and steel, plain foundation, King Sq., $750,000. Ross & McDonald, Belmont St., Montreal, Que., archts. Noted Jan. 17.

BIDS RECEIVED

N. Y., Buffalo—School—Bd. Educ., 1400 Telephone Bldg., Mar. 26, general contract P. S. 71, 2 story and basement, 190 x 215 ft., rein.-con. and brick, Lang Ave., from G. Schaaf, 258 Kingsley St., $368,340; heating and ventilating from J. J. Bresnahan, Inc., 41 Pearl St., $67,774. Noted Mar. 6.

Pa., Bloomsburg — Church and Sunday School — Trustees St. Matthews Lutheran Church, N. S. Wolf, pastor, 1 story and basement, 44 x 85 ft. with 2 story, 56 x 101 ft. wing, North Market St., from H. A. Moore Co., Milton, $124,301. Noted Mar. 13.

Wis., Oshkosh—Temple—Masonic Executive Com., c/o F. A. Fuller, 50 West Polk St., 4 story and basement, 90 x 96 ft., brick, stone and concrete, plain foundation, from C. R. Meyer & Sons, 50 State St., $174,000. Noted Mar. 13.

Calif., Huntington Park (Branch of Los Angeles)—School—Huntington Park Union High School Dist., school of arts, brick, general contract from Edwards, Wildey & Dixon, Black Bldg., Los Angeles, $168,000. Noted Mar. 20.

Calif., Sacramento—Store and Office—H. H. and W. S. Hart, c/o F. A. Foale, Ochsner Bldg., (a) 5 story (b) 2 story (c) 1 story and basement (ultimately 12 story), Class A steel, brick and terra cotta, K St., from W. Murcell, Ochsner Bldg., (a) $285,600 (b) $134,846 (c) $91,460; Campbell Constr. Co., Nicholaus Bldg., (a) $297,532 (b) $125,692 (c) $89,800. Noted Mar. 6.

CONTRACTS AWARDED

Mass., Ware—Church—Lady of Mt. Carmel Church, 90 x 170 ft., pressed brick and stone, 2 towers, plain foundation, to J. Miles & Sons Co., Springfield. Noted July 26.

Mass., Worcester—Store and Office—City General Corp., 6 story and basement, 111 x 127 ft., brick and steel, to E. D. Ward Co., 82 Foster St., $755,000.

R. I., Slocum—Administration and Service—Exeter School, 2 story, 70 x 200 ft., brick and steel, to A. F. Smiley Co., 308

Buildings **(Continued)**

Main St., Pawtucket, $134,000. Archts. est. $150,000. Noted Mar. 27.

Conn., Middletown—Nurses Home—State Pub. Health Comn., Hartford, 2 story, brick, here, to S. Mazzotta, 230 Pearl St., $155,000. Noted Mar. 20.

N. Y., Brooklyn—Apartment—P. Schoengeld, c/o Cohn Bros., archts. and engrs., 361 Stone Ave., will build 6 story, brick, steel and stone, plain foundation, South 2nd and Hooper Sts., by day labor. $350,000.

N. Y., New York—Apartment—S. Alkoff, c/o J. M. Felson, archt. and engr., 1133 Bway., will build 5 story, brick, steel and stone, plain foundation, Bronx Park S., near Bryant Ave., by day labor.

N. Y., New York — Apartment — Hillpin Building Corp., c/o J. M. Felson, archt. and engr., 1133 Bway., will build 5 story, brick, steel and stone, plain foundation, Walton Ave., by day labor. $300,000.

N. Y., New York — Apartment — Orden Building Corp., c/o J. M. Felson, archt. and engr., 1133 Bway., will build 5 story, brick, steel and stone, plain foundation, Mosholu Parkway, by day labor. $200,000.

N. Y., New York—Apartment—Schatz & Zuker, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, brick, steel and stone plain foundation, Vyse Ave., by day labor. $200,000.

N. Y., Plattsburg—Office and Store—A. H. Marshall Co., 3 story and basement, brick, stone, concrete and steel, Margaret and Bridge Sts., general contract to E. K. Fenno, 204 North Beach St., Syracuse. Total cost $150,000-$160,000.

N. Y., Potsdam—Bank—Peoples Bank of Potsdam, 2 story, marble, litholite, brick, concrete and steel, Elm and Raymond Sts., to S. Nicolette, Potsdam, $160,000.

N. Y., Utica — Church — St. Anthonys Parish, new church, Buffalo St., to E. C. Richards, $150,000.

N. J., Somerville—Hospital—Crow, Lewis & Wick, archts., 200 5th Ave., New York City, 3 story, 43 x 184 ft., brick, steel and limestone, plain foundation, Rehill Ave., here, to J. Lowry, Inc., 171 Madison Ave., New York City, for Somerville Hospital. $354,500. Noted Feb. 21.

Pa., Doylestown — Theatre — A. O. Martin, archt., Hart Bldg., 1 story, 53 x 140 ft. brick and steel, plain foundation. Main and Donaldson Sts., to F. V. Warren Constr. Co., 1913 Arch St., Phila., to exceed $150,000, for I. O. O. F. Lodge 193.

Pa., McKees Rocks — Exchange — Bell Telephone Co., 7th Ave., Pittsburgh, 2 story and basement, 45 x 113 ft., Chartiers Ave., here, to A. and S. Wilson Co., 541 3rd Ave., Pittsburgh. Archts. est. $150,000.

Pa., Phila. — Apartment — Stetler & Dysher, archts., 1015 Chestnut St., 4 story and basement, 80 x 100 ft., Walnut St. between 45th and 46th Sts., to H. Gill 2515 Germantown Ave., $250,000. Owner's name withheld.

Pa., Upper Darby (Phila. P. O.)—School and Chapel—P. F. Getz, archt., 1634 North 6th St., 2 story and basement, 57 x 160 ft. and 20 x 64 ft. stone, plain foundation, Hampden and Sansom Sts., to J. McShain, 1610 North St., Phila., for St. Alices Roman Catholic Parish, $150,000.

Md., Baltimore—Hotel—Emerson Hotel, Calvert and Baltimore Sts., will build 16 story, 40 x 104 ft., brick and steel, plain foundation, Calvert and Baltimore Sts., by day labor. W. H. Parker, c/o Emerson Hotel. will supervise construction. $550,000. Noted Mar. 13.

La., New Orleans — Hospital — Diebert Memorial Hospital, 4 story, 45 x 300 ft. main building, with 2 and 3 story wing, rein.-con. and steel, on Derby Tract Site, to G. J. Glover, Whitney Bldg., $400,000. Noted Oct. 11.

La., New Orleans — School — Orleans Parish School Bd., 3 story, 150 x 300 ft. rein.-con. and brick, Carrolton Ave. and Belfast St., to Rouprich Constr. Co., 405 Louisiana Bldg., $331,090. Noted Mar. 27.

Tenn., Memphis — Jail — Shelby Co., 4 story, concrete, brick and stone, Washington Ave., general contract to Kaucher-Hodges Co., Exch. Bldg., $398,000; plumbing to Prichard Bros., 433 Madison Ave., $45,000. Noted Mar. 20.

Tenn., Nashville—Apartment—Prickett & Thomas, Stahlman Bldg., 8 story and basement, concrete, stone, brick and steel, 7th and Cedar Sts.; frame steel work, to Nashville Bridge Co., Shelby Ave. Archts. est. $500,000. Noted Jan. 10.

Tenn., Nashville—Exchange—See "Unclassified."

Ky., Greenville—High School—Bd. School Comrs., 3 story and basement, 60 x 150 ft., to J. Cole, Paducah. Archts. est. $150,000. Noted Mar. 20.

Ohio—School—Bd. Educ. Harrison Twp. School Dist., Dayton, 2 story and basement, rein.-con. and brick, plain foundation, to J. W. Boren & Sons, 34 Huffman Ave., Dayton, $150,000. Noted Nov. 15.

O., Barberton — School — Bd. Educ., 10 room addition to Hyland School, to W. W. Serber, Barberton, $104,400. Noted Mar. 20.

O., Columbus—Hospital—C. E. Steele, secy. Bd. Trustees Ohio State University, constructing Starling-Loving Hospital, 4 story and basement, 120 x 150 ft., rein.-con. and brick, on campus, to E. H. Latham, 60 East Broad St., $339,217. Noted Mar. 20.

O., Toledo—School—Bd. Educ. Raymer School, 3 story and basement, rein.-con. and brick, plain foundation, to Gettins Kopitke Co., Wabash St., $349,200. Noted Mar. 20.

Mich., Detroit—Clubhouse—Y. M. C. A. (colored branch), c/o Donaldson & Meier, archts., 1314 Penobscot Bldg., 6 story and basement, 95 x 144 ft., rein.-con., brick and steel, plain foundation, Elizabeth St., to Walbridge-Aldinger Co., 2356 Penobscot Bldg. Archts. est. $450,000.

Mich., Mt. Clemens—School—F. Newberry, secy. Bd. Educ., Dist. 3, 2 story and basement, 12 room, rein.-con., brick and steel, plain foundation, Mack Ave. and Defer Rd., to M. Bartholomaei Sons & Co., 1574 East Warren Ave., Detroit. Noted Mar. 13.

Ill., Chicago—Hospital—St. Lukes Hospital, 1439 South Michigan St., 19 story, 50 x 200 ft., fireproof, 1439 South Michigan St., to Dahl-Stedman Co., 11 South LaSalle St. Archts. est. $2,500,000.

Ill., Edwardsville — High School — Bd. Educ., general contract 3 story, rein.-con. and brick, to A. Fahrig, Edwardsville, $134,500.

Wis., Milwaukee — Church — St. Leo Congregation, c/o P. Theisen, pastor, 2442 Locust St., 1 and 2 story, 88 x 160 ft., brick and concrete, plain foundation, 24th St., to H. Schmitt & Son, 430 Farwell Ave., $250,000. Noted Feb. 14.

Wis., Mineral Point—School—Bd. Educ., 2 story, 90 x 113 ft., rein.-con., brick and steel, plain foundation, to L. S. Wagner & Son, Co., Monroe, $150,000. Noted Mar. 6.

Wis., Wyocena—Asylum—Columbia Co., 2 story and basement, 73 x 161 ft., brick, rein.-con. and steel, plain foundation, to Hoeppner-Bartlett Co., Eau Claire. Noted Mar. 6.

Neb., Gordon — School — Bd. Educ., 3 story and basement, 63 x 96 ft. concrete and brick, to Swanson & Sudik, Gordon. Archts. est. $150,000. Noted Mar. 13.

Mo., Columbia—Hotel—Bd. Control Residence Hall Methodist Women, general contract 3 story and basement, 40 x 65 x 125 ft., brick and stone, plain foundation, to Simon Constr. Co., Columbia, $170,000.

Ore., Eugene—Hotel—Eugene Hotel Co., 6 story, 100 x 100 ft., rein.-con., 9th and Pearl Sts., to A. Lowland, Eugene, $300,000. Noted Nov. 22.

Calif., Colma—School—Jefferson Union High School Dist., 1 and 2 story, 15 rooms and auditorium, rein.-con., general contract, to Sample & Cody, Call Bldg., San Francisco, $122,500. Noted Apr. 3.

Calif., Los Angeles—Apartment—H. C. Jensen, 1728 Westmoreland Blvd., will build 3 story and basement, 140 x 150 ft., brick, Logan St. and Sunset Blvd., by day labor and sub-contracts. Private plans.

Calif., Los Angeles—Hotel and Store—Metropolitan Hotel Co., c/o L. L. Smith, archt., Byrne Bldg., 14 story and basement, 92 x 150 ft., rein.-con., South Main St., to Weymouth-Crowell Co., 2104 East 15th St. To exceed $650,000. Noted Nov. 22.

Calif., Los Angeles—Loft and Store—A. C. Martin, Higgins Bldg., representing owner, 5 story and basement, brick, Figueroa St., to H. M. Baruch, I. W. Hellman Bldg., $152,800.

Calif., Los Angeles — Loft — Ninth & Bway. Bldg. Co., 11 story, 100 x 150 ft., rein.-con., Bway. near 9th St., to MacDonald & Kahn, Inc., Loews State Bldg., $457,000.

Calif., Los Angeles—Theatre, Store, Office and Apartment—West Coast Theatres, Inc., Knickerbocker Bldg., 190 x 250 ft., rein.-con., Vermont Ave., to Macdonald & Kahn, Mercantile Arcade Bldg., cost plus basis, about $300,000. Noted Jan. 17.

Calif., San Francisco—Apartment—D. J. Clancy, 2884 Folsom St., will build 6 story and basement, rein.-con., Washington and Franklin Sts., by day labor and sub-contracts. $150,000. Baumann & Jose, 251 Kearny St., archts.

Ont., Minic—High School—Bd. Educ., 2 story and basement, 8 room, concrete, brick and tile, general contract to Witchall & Sons, 156 St. Helens Ave., Toronto. Noted Jan. 10.

Ont., Richmond Hill—School—Bd. Educ., 8 room, concrete, brick and steel: masonry, stone and steel to Britnell Contg. Co., Baxter Ave., Toronto; electric work to Richardson & Cross, 81 King St. E., Toronto; heating and plumbing to Bennett & Wright, 72 Queen St. E., Toronto. Noted Feb. 14.

Ont., Toronto—Office—Imperial Life Assurance Co., 34 Victoria St., 8 story and basement, 40 x 100 ft. rein.-con., brick and steel, plain foundation, Victoria St., to Carswell Constr. Co., 58 Wellington St. E. Archts. est. $300,000. Noted Mar. 27.

Que., Montreal—Theatre—A. Lawland, Park Ave., 3 story, 100 x 100 ft., rein.-con. brick and stone, to Lege & Lamoureux, St. Denis Bldg., $150,000. Noted

Que., Outremont—Garage—J. O. Villeneuve & Co., St. James St., Montreal, 4 story, 90 x 167 ft. rein.-con. garage, Bernard and De L'Eppe Aves., to L. A. Otto & Co., Cathcart St., Montreal., $150,000.

Federal Government Work

PROPOSED WORK

Me., Bar Harbor — Compass Station — Spec. 4966—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans compass station here.

Mass., Chelsea — Porches and Walks — Spec. 4965—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans porches and walks at Naval Hospital, here.

S. C., Charleston—Electric Crane—Spec. 4962—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to purchase electric traveling crane.

Fla., St. Petersburg—Jetty—U. S. Engineer, Jacksonville, plans jetty here.

Ky., Uniontown—Yellow Pine—U. S. Engineer, P. O. Box 72, Louisville, opens bids about Apr. 15, 120,000 ft. yellow pine No. 2 common, for Dam 49, f.o.b. Owensboro.

O., Cincinnati—Dwellings—U. S. Engineer, Cincinnati, takes bids about May 1, lock keepers dwellings at Dams 34, 36 and 38, Ohio River. Noted Mar. 27.

Mich., Detroit—Dredging—U. S. Engineer, Detroit, takes bids about May 1, dredging in Russell Island Shoal, St. Clair River.

Minn., St. Cloud—Screening Buildings—Spec. 4964—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans screen buildings at U. S. Veterans Hospital here.

China, Pekin—Radio Station—Spec. 4963 —Bureau Yards & Docks, Navy Dept., Wash., D. C., plans radio station and storage battery house, here. Bids will be opened at local yard.

BIDS DESIRED

N. Y., Ft. Hamilton (Sta. Brooklyn)—Waterworks — Apr. 17, at office Constructing Quartermaster, Room 510, 39 Whitehall St., New York, addition to water supply system, here; adv. E. N.-R. Apr. 10.

Mich., Detroit—Motor Launch—Apr. 29, by U. S. Engineer Office, Detroit, constructing wooden motor launch; adv. E. N.-R. Apr. 10.

California — Road — Apr. 16, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Main St., San Francisco, surfacing 12 mi. Mineral Sect. Red Bluff-Susanville Natl. Forest Rd., Tehama Co., 17,800 cu. yd. crushed stone.

Calif., Bakersfield—Post Office—May 8, by Treas. Dept. at office Supervising Architect, Wash., D. C., 1 story, 73 x 127 ft., here; adv. E. N.-R. Apr. 3 and 10.

CONTRACTS AWARDED

Del., Wilmington—Dike and Sluice—U. S. Engineer, Wilmington, dike and sluice in Delaware River, to Triest Contg. Co., 247 Park Ave., New York City, $472,950. Noted Jan. 10.

Unclassified

PROPOSED WORK

Hydro-Electric Development—New York —Pauls Smiths Power, Light & Ry. Co., Saranac Lake, plans hydro-electric development consisting steel and concrete dam, concrete power house, 3,000 ft. steel penstock and generating equipment, on Racquette River at Racquette Falls. To exceed $350,000.

Transmission Line — New York — Binghamton Light, Heat & Power Co., 172 Washington St., Binghamton, plans extending 3 phase high tension transmission line to Sanitoria Springs. To exceed $25,000. R. L. Peterson, genl. mgr.

Transmission Line—New York—Elmira Water, Light & R.R. Co., Madison Ave., Elmira, plans 3 phase, 2,200 volt high-tension transmission line to Burdett. To exceed $25,000.

Sea-wall — Buffalo, N. Y. — Buffalo & Crystal Beach Corp. plans 1,000 lin.ft. rein.-con. sea-wall. $50,000-$60,000.

Unclassified (Continued)

Ornamental Lighting System—Herkimer, N. Y.—Bd. Village Trustees plans ornamental street lighting system on Main St. $25,000-$30,000. J. F. Smith, village pres.

Hydro-electric Development — Oswego, N. Y.—Battle Island Power Co., having surveys and plans made hydro-electric development Oswego River, Dam 6. $450,000.

Steel Hull Railroad Car Floats—Maryland—Baltimore & Ohio R.R., Baltimore and Charles Sts., Baltimore, plan to purchase 4 steel hull railroad car floats, 39 x 285 ft. Several hundred thousand. J. H. Clark, c/o Baltimore & Ohio R.R., 2 Wall St., New York City, supt. floating plant.

Gas Line — West Virginia — Associated Coal & Gas Co., Welch, plans 35 mi. gas pipe line from Mingo Co., W. Va., to Clay City, Ky. $50,000. W. W. Whyte, pres

Revetment—Louisville, Ky.—Jefferson Co. plans revetment of River Rd. on bank of Ohio River, 5,000 cu.yd. stone riprap. To exceed $25,000. T. Drane, co. surv.

Transmission Line—Cleveland, O.—See "Industrial Works."

Hydro-Electric Development—Flat Rock, Ind.—Flat Rock Hydro-Electric Power Co., c/o C. C. Shipp, promoter, 309 East Walnut St., Indianapolis, plans hydro-electric development on Flat Rock River. $600,000.

Track Elevation — Indianapolis, Ind. — Cleveland, Cincinnati, Chicago & St. Louis R.R., 457 Transportation Bldg., plans elevating tracks from Market St. to Massachusetts Ave. To exceed $40,000. C. A. Paquette, Union Central Bldg., Cincinnati, O., ch. engr.

Grand Stand—West Allis, Wis.—State Bd. Agriculture, J. Jones, comr. Madison, had plans prepared rein.-con. addition to grand stand at State Fair Park, here. $100,000. A. Peabody, Capitol, Madison, archt. and engr.

White Way—Topeka, Kan.—Plans election $50,000 bonds, white way lighting system on 42 blocks, West 5th, West 6th, East 6th, West 7th and East 10th Sts. W. E. Baldry, City Hall, engr.

Pipe Line—Texas—Magnolia Petroleum Co., Beaumont and Magnolia Bldg., Dallas, plans 400 mi. oil pipe line from Luling to Beaumont. $1,000,000. Private plans.

Flood Prevention — Bay City, Tex. — Matagorda Co. and City plan flood prevention along Colorado River, to include dam or levees. $685,000 to $900,000. Election Apr 20, to vote on $685,000 bonds. W. C. McNabb, co. judge.

Park Improvements—Dallas, Tex.—City Comn. soon takes bids park improvements, ornamental gateway, shelter houses, walks, etc., Tension Park. $35,000. Lang & Witchell, Amer. Exch. Natl. Bank, archts. E. A. Kingsley, city engr.

Flood Control—Los Angeles, Calif.—Los Angeles Flood Control Dist. plans to vote on $32,301,000 bonds for flood control works.

Harbor Improvements—Goderich, Ont.—Dept. Pub. Wks., Ottawa, Ont., having plans prepared deepening and making improvements to harbor, $50,000. A. Craig, Royal Bank Bldg., London, engr.

Turntable—North Bay, Ont.—Temiskaming & Northern Ontario Ry., North Bay, plans 90 ft. turntable in yards, here. $30,000. S. B. Clement, ch. engr.

Tunnel — British Columbia — British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, soon takes bids constructing Alouette Stave Tunnel, 3,400 ft. long, 14 ft. in diam., 1,000 cu.yd. concrete, 4,500 cu.yd. rock excav. in shafts and intake, etc.

BIDS DESIRED

Fire Alarm System—New York, N. Y.—Apr. 15, by Dept. Pub. Welfare, Municipal Bldg., local fire alarm system in New York City Childrens Hospital and Schools Dist. of Randalls Island. B. S. Coler, comr.

Subway—New York, N. Y.—Apr. 25, by Transit Comn., 49 Lafayette St., Sect. 2 of Route 70, a part of Rapid Transit Railroad. G. McAneny, chn.

Hot Water Supply System—Perrysburg, N. Y.—Apr. 15, by Comn. Parks & Buildings, City Hall, Buffalo, hot water supply system in J. N. Adam Memorial Hospital, here. $25,000. J. H. Meahl, City Hall, Buffalo, comr.

Park—Trenton, N. J.—Apr. 11, embellishment of North Trenton Park. $25,000. J. E. English, City Hall, engr. Noted Mar. 27.

Stadium—Morgantown, W. Va.—Apr. 15, by West Virginia University, stadium, 2 stands, 102 x 360 ft. and 82 x 360 ft. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs. Noted Feb. 14.

Ferry House, etc.—New Orleans, La.—Apr. 17, by Bd. Port Comrs., New Court Bldg., concrete and steel ferry house, facade, coping walls, and paving, at foot of Canal St. $90,000.

Bulkhead and Filling—Chicago, Ill.—Apr. 16, by South Park Comrs. 57th St. and Cottage Grove Ave., constructing portion of inner bulkhead in Lake Michigan, also filling to grade area enclosed by bulkhead. E. H. Whitty, secy.; adv. E. N.-R. Apr. 10.

Transfer Shed, etc.—Corpus Christi, Tex.—May 20, by City Comrs., large timber transfer shed and accessories, $150,000, also wharf, treated timber on special piers, in conjunction with deep water project, $700,000. R. J. Cummins, 732 Bankers Mortgage Bldg., Houston, and E. E. Sands, 5418 Austin St., Houston, engrs.

Road Material—Fort Worth, Tex.—City taking bids for road oils, asphalt and surfacing materials. Will repair streets by day labor. $60,000. D. L. Lewis, city engr.

Seawall — California — See "Streets and Roads."

BIDS RECEIVED

Freight Yards, etc.—Caswells (Knoxville P. O.). Tenn.—Southern Railway System 4th & Sycamore Sts., freight yard with cut off track coal yards and coal handling equipment, to The Foundation Co., 120 Liberty St., New York City. Est. cost $3,000,000.

CONTRACTS AWARDED

Extension Lines, etc.—Nashville, Tenn.—Cumberland Telephone & Telegram Co., Telephone Bldg., will construct new exchange, cables, conduits, and install switchboards and equipment, etc., by company forces. $338,000. K. C. Hardcastle, mgr.

Elimination of Grade Crossing—Cleveland, O.—Pennsylvania Co., Pennsylvania Sta., Pittsburgh, Pa., elimination of grade crossing from Cedar to Holton Aves., 5,000 cu.yd. concrete retaining wall, 250,000 cu. yd. dirt fill, to H. E. Culbertson Co., Hanna Bldg.

Swimming Pool, etc.—Two Rivers, Wis.—Bd. Educ., swimming pool, bleachers, shower rooms, lockers, etc., to Greer & Butler, 420 Milwaukee St., Milwaukee. Noted Mar. 13.

Transmission Line—Kansas—Cities of Grainfield and Grinnel, transmission line from Grainfield to Grinell, to Dwight Chapin Co., Kansas City, Mo., $28,450. Noted Mar. 20.

Swimming Pool—St. Joseph, Mo.—City, open air concrete swimming pool, at Noyes Blvd. athletic field, to Rainert Bros., 1208 North 5th St., $38,493.

Grain Elevator—Amarillo, Tex.—W. S. Kergan, 20,000 bbl. grain elevator, concrete, on Polk St., to Star Eng. Co., 209-11 North St. Francis St., Wichita, Kan., $75,000.

Electrolier System—Los Angeles, Calif.—Ornamental lighting system on Brooklyn Ave., to H. H. Walker, 1800 West 12th St., $44,818. Noted Apr. 3.

Steel Hull, etc.—Portland, Ore.—Port of Portland, 916 Spalding Bldg., steel hull for dredge, and installing deisel engines, to Wallace Equipment Co., 11th S. W. and West Hanford Sts., Seattle, Wash., and Albina Marine Iron Wks., Lewis and Loring Sts., $165,000. Engrs. est. $250,000. Noted Feb. 14.

Power Development—Halifax, N. S.—Nova Scotia Power Comn., Halifax, power development at Ruth Falls, 1½ mi. concrete lined canal, to E. F. Powers Constr. Co., St. John, N. B., $200,000, concrete dam, to W. Cooke, North Sydney, $60,000.

Material and Equipment

PROPOSED WORK

Road Oil, etc.—Cincinnati, O.—Hamilton Co., Court House, plans to purchase 208,000 gal. road oil, 10,000 cu.yd. sand, 153,800 gal. Grade 2 tar, will also clean 1,051,000 sq.yd. road. $88,391. E. A. Gast, Court House, engr.

Filters, etc.—Binghamton, N. Y.—Binghamton Gas Co., 40 Chenango St., plans filters and filtration system to remove oil from entire plant residuum. To exceed $25,000.

Rail Bonds, Track Bolts and Track Spikes—Eureka, Calif.—City plans to purchase 2,600 solid terminal rail bonds, concealed type, twin conductors, center crimp 10 in. spacing between 7-8 terminals; 3 tons ¾ x 3½ in. and 2 tons ¾ x 3¼ in. track bolts; 15 tons $\frac{9}{16}$ x 5 in. thick track spikes for Municipal Ry. J. W. Griffith, supt. pub. wks.

Sprinkler and Flusher—Verdun, Que.—Plans to expend $10,000 for new sprinkler and flusher. H. Hadley, city engr.

BIDS DESIRED

Road Oil—Hartford, Conn.—Apr. 22, by Bd. Contract & Supply, at office of Mayor, Municipal Bldg., road oil. P. McGovern, secy.; adv. E. N.-R. Apr. 10.

Cement—Buffalo, N. Y.—Apr. 17, by Commissioner Pub. Parks & Buildings, City Hall, 4,000 bbl. cement.

Paving Materials—Chicopee, Mass.—Apr. 11, by E. Bourbeau, supt. streets, furnishing granite curbing, granite block, wood block, trap rock, sewer castings, asphalt, tar, road oils, cement and tar walks, etc., which may be ordered by Supt. of Streets from Apr. 15, 1924, to Apr. 15, 1925.

Paving Materials—Springfield, Mass.—Apr. 16, by Bd. Supervs. Dept. Streets and Eng., at office of City Clerk, Administration Bldg., furnishing asphaltic cement, asphalt for penetration construction, asphalt for resurfacing or road binding, asphaltic and non-asphaltic road oils, hot and cold tars, castings, etc. R. P. Marsh, supt. Dept. Streets and Eng.

Crusher—Johnstown, N. Y.—Johnstown Crushed Stone Co. in market for rotary jaw crusher. C. Stoller, purch. agt.

Sand Grit, etc.—Long Island City, N. Y.—Apr. 15, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 5,000 cu.yd. sand grit or broken stone chips of trap rock to Bureau Highways.

Asphalt Binder—New York, N. Y.—Apr. 16, by E. W. Buckley, comr. Purch., Municipal Bldg., asphalt binder, tar road oil and pitch to Depts. Plant & Structures, Parks—Bronx, and Parks-Queens.

Tie Plates—New York, N. Y.—Apr. 11, by Transit Comn., 49 Lafayette St., supply of tie plates (order 6) for use in construction of Rapid Transit Railroads. G. McAneny, chn.

Asphaltic Binder — Plattsburg, N. Y. — Apr. 18, by Common Council, 50,000 gal. asphaltic binder. Prices to be given on car load, barrel and gallon. I. L. Wood, city clk.

Trucks—St. George, N. Y.—Apr. 14, by J. A. Lynch, pres. Richmond Boro, Boro Hall, one 1½ ton and one 2 ton automobile trucks with dump bodies.

Road Planer—Troy, N. Y.—Bd. Contr. & Supply in market for 1 road planer for gravel roads. C. R. Wales, secy.

Stone, etc.—Trenton, N. J.—Apr. 21, by State Hy. Comn., 24,535 tons 2½ in., 475 tons 1½ in. and 3,195 tons ¾ in. stone, 11,040 tons Grade A, 900 tons Grade B and 7,750 tons dustless screenings, 2,130 tons ¾ in. washed gravel or crushed stone, 3,045 tons crushed slag, dustless screenings, 296,815 gal. Grade B or UB tar, 20,705 gal. Grade X or U3 tar, 31,185 gal. Grade LK asphalt and 13,500 gal. Grade SCO asphalt, 167,100 gal. asphalt cement emulsion, Grade "AE" etc. A. L. Grover, ch. clk.

Crushed Stone, etc.—Wilmington, Del.—Apr. 15, by President of Levy Court, New Castle Co., crushed stone, gravel, slag, road tar, oils and asphalt for 1924. C. E. Grubb, co. engr.

Road Material—Louisiana—Apr. 22, by State Highway Comn., Baton Rouge, 8,460 cu.yd. sand clay gravel containing not less than 60% stone on ¼ in. screen, or 2,820 cu.yd. washed gravel and 5,640 cu.yd. clay gravel containing 40% stone on ¼ in. screen, f.o.b. Winnsboro, also 7,802 cu.yd. washed gravel or 10,398 cu.yd. 60% sand gravel or 3,466 cu.yd. washed and 7.932 cu.yd. 40% sand clay gravel, f.o.b. East Felisiana. J. M. Fourmy, engr.

Condensors, etc.—Cleveland, O.—Apr. 25, condensors and condensor auxiliaries for 15,000 kw. steam turbo and steam turbo generator.

Hoisting Engine, etc.—Columbus, O.—Boyajohn & Barr, Brunson Bldg., in market for 1 hoisting engine and 2 concrete mixers.

Steam Roller — Madison, Wis. — Taking bids one 12 ton 3 wheel steam roller with scarifier. E. E. Parker, city engr. Noted Mar. 27.

Brick, Portland Cement, etc.—St. Paul, Minn. — Apr. 15, by H. W. Austin, city purch. agt., 1,144 sq.yd. 3-in. vertical fibre brick and 250 bbl. portland cement for paving South Wabasha St. between Water St. and Wabasha St. Bridge; 64,946 lb. straight reinforcing steel and 13 tons c.i. flange pipe and specials for Water Dept. G. M. Shepard, city engr.

Concrete Mixer, etc.—St. Louis, Mo.—General Eng. & Mfg. Co., 1523 South 10th St., in market for small size concrete mixer and jaw crusher.

Elevating Grader—Temple, Tex.—D. H. Buchanan taking bids elevating grader.

Logging Donkeys — Colfax, Calif. — W. McKean, P. O. Box 326, in market for double drum logging donkeys (new or used).